

## SEQUENCE LISTING

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<120> SECRETED POLYPEPTIDE SPECIES ASSOCIATED WITH CARDIOVASCULAR DISORDERS

<130> 4 -33643A/GEP (5052-W001)

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<170> PatentIn version 3.1

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Glu Thr Lys

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Tyr Asn Lys

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Gln Leu Gln Glu Val Lys

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Val Ala Gly Leu Leu Glu Asp Thr Phe Pro Gly Leu Leu Gly Leu Arg  
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Asp Tyr Val Lys  
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Ala Phe Gln Tyr His Ser Lys  
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Val Thr Lys

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Glu Gln Gln Cys Val Ile Met Ala Glu Asn Arg Lys  
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Gln Leu Gly Ala Gly Ser Ile Glu Glu Cys Ala Ala Lys  
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<400> 32

Gln Leu Gly Ala Gly Ser Ile Glu Glu Cys Ala Ala Lys Cys Glu Glu  
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Asp Glu Glu Phe Thr Cys Arg  
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Ala Ile His Cys Pro Arg Pro His Asp Phe Glu Asn Gly Glu Tyr Trp  
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Pro Arg

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Leu Glu Asp Ser Val Thr Tyr His Cys Ser Arg  
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Tyr Pro Tyr Pro Val Gln Thr Arg  
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Ser Thr Gly Ser Trp Ser Thr Leu Lys  
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Val Glu Ile Lys  
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Trp Ser Gly Gln Thr Ala Ile Cys Asp Asn Gly Ala Gly Tyr Cys Ser  
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Asn Pro Gly Ile Pro Ile Gly Thr Arg  
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Ala Asp Ile Gly Cys Thr Pro Gly Ser Gly Lys  
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Ala Glu Leu Gln Cys Pro Gln Pro Ala Ala  
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Ala Tyr Tyr Glu Asn Ser Pro Gln Gln Val Phe Ser Thr Glu Phe Glu  
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Val Lys



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Asp Tyr Ala Gly Val Phe Ser Asp Ala Gly Leu Thr Phe Thr Ser Ser  
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Ser Gly Gln Gln Thr Ala Gln Arg  
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Phe Ile Pro Ser Phe Arg  
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Glu Val Val Ala Asp Ser Val Trp Val Asp Val Lys  
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Glu Tyr Val Leu Pro Ser Phe Glu Val Ile Val Glu Pro Thr Glu Lys  
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Phe Ile Ser Leu Gly Glu Ala Cys Lys  
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Phe Val Thr Val Gln Ala Thr Phe Gly Thr Gln Val Val Glu Lys  
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&lt;210&gt; 48

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&lt;400&gt; 48

Phe Tyr Tyr Ile Tyr Asn Glu Lys  
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&lt;210&gt; 49

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&lt;213&gt; Homo sapiens

&lt;400&gt; 49

Gly Val Phe Val Leu Asn Lys  
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&lt;210&gt; 50

&lt;211&gt; 8

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Gly Val Phe Val Leu Asn Lys Lys  
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&lt;211&gt; 20

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&lt;213&gt; Homo sapiens

&lt;400&gt; 51

Ile Leu Leu Gln Gly Thr Pro Val Ala Gln Met Thr Glu Asp Ala Val  
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Asp Ala Glu Arg  
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Ile Pro Ile Glu Asp Gly Ser Gly Glu Val Val Leu Ser Arg  
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&lt;210&gt; 53

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Ile Trp Asp Val Val Glu Lys  
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&lt;211&gt; 18

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&lt;400&gt; 54

Ile Trp Asp Val Val Glu Lys Ala Asp Ile Gly Cys Thr Pro Gly Ser  
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Gly Lys

&lt;210&gt; 55

&lt;211&gt; 8

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Lys Leu Val Leu Ser Ser Glu Lys  
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&lt;210&gt; 56

&lt;211&gt; 30

&lt;212&gt; PRT

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&lt;400&gt; 56

Leu Glu Ser Glu Glu Thr Met Val Leu Glu Ala His Asp Ala Gln Gly  
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Asp Val Pro Val Thr Val Thr Val His Asp Phe Pro Gly Lys  
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&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 57

Leu Glu Ser Glu Glu Thr Met Val Leu Glu Ala His Asp Ala Gln Gly  
 1 5 10 15

Asp Val Pro Val Thr Val Thr Val His Asp Phe Pro Gly Lys Lys  
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&lt;210&gt; 58

&lt;211&gt; 17

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Leu Ser Ile Asn Thr His Pro Ser Gln Lys Pro Leu Ser Ile Thr Val  
 1 5 10 15

Arg

&lt;210&gt; 59

&lt;211&gt; 14

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&lt;400&gt; 59

Leu Val Ala Tyr Tyr Thr Leu Ile Gly Ala Ser Gly Gln Arg  
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&lt;400&gt; 60

Leu Val Leu Ser Ser Glu Lys  
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&lt;211&gt; 11

&lt;212&gt; PRT

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&lt;400&gt; 61

Gln Glu Leu Ser Glu Ala Glu Gln Ala Thr Arg  
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&lt;210&gt; 62

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 62

Gln Leu Tyr Asn Val Glu Ala Thr Ser Tyr Ala Leu Leu Ala Leu Leu  
 1 5 10 15

Gln Leu Lys

&lt;210&gt; 63

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

Gln Pro Val Pro Gly Gln Gln Met Thr Leu Lys  
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Ser Gly Ile Pro Ile Val Thr Ser Pro Tyr Gln Ile His Phe Thr Lys  
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Ser Asn Leu Asp Glu Asp Ile Ile Ala Glu Glu Asn Ile Val Ser Arg  
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Ser Pro Met Tyr Ser Ile Ile Thr Pro Asn Ile Leu Arg  
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<210> 67  
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Ser Ser Leu Ser Val Pro Tyr Val Ile Val Pro Leu Lys  
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Thr Glu Leu Arg Pro Gly Glu Thr Leu Asn Val Asn Phe Leu Leu Arg  
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Thr Ile Tyr Thr Pro Gly Ser Thr Val Leu Tyr Arg  
 1 5 10

<210> 70  
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<400> 70

Thr Val Met Val Asn Ile Glu Asn Pro Glu Gly Ile Pro Val Lys  
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<210> 71  
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Val Glu Leu Leu His Asn Pro Ala Phe Cys Ser Leu Ala Thr Thr Lys  
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Val Phe Ser Leu Ala Val Asn Leu Ile Ala Ile Asp Ser Gln Val Leu  
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Cys Gly Ala Val Lys  
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Val Pro Val Ala Val Gln Gly Glu Asp Thr Val Gln Ser Leu Thr Gln  
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Gly Asp Gly Val Ala Lys  
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Val Gln Leu Ser Asn Asp Phe Asp Glu Tyr Ile Met Ala Ile Glu Gln  
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Thr Ile Lys

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Val Val Leu Val Ala Val Asp Lys  
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<210> 76  
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<400> 76

Val Val Leu Val Ala Val Asp Lys Gly Val Phe Val Leu Asn Lys  
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Tyr Phe Lys Pro Gly Met Pro Phe Asp Leu Met Val Phe Val Thr Asn  
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Pro Asp Gly Ser Pro Ala Tyr Arg  
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Tyr Tyr Gly Gly Gly Tyr Gly Ser Thr Gln Ala Thr Phe Met Val Phe  
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Gln Ala Leu Ala Gln Tyr Gln Lys  
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Tyr Tyr Thr Tyr Leu Ile Met Asn Lys  
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Phe Ile Ser Leu Gly Glu Ala Cys Lys  
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Phe Ile Ser Leu Gly Glu Ala Cys Lys Lys  
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Lys Val Phe Leu Asp Cys Cys Asn Tyr Ile Thr Glu Leu Arg  
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Val Phe Leu Asp Cys Cys Asn Tyr Ile Thr Glu Leu Arg  
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Val Phe Leu Asp Cys Cys Asn Tyr Ile Thr Glu Leu Arg Arg  
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Ala Gly Asp Phe Leu Glu Ala Asn Tyr Met Asn Leu Gln Arg  
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Ala Pro Ser Thr Trp Leu Thr Ala Tyr Val Val Lys  
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Asp Phe Asp Phe Val Pro Pro Val Val Arg  
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Asp Ile Cys Glu Glu Gln Val Asn Ser Leu Pro Gly Ser Ile Thr Lys  
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Gly Tyr Thr Gln Gln Leu Ala Phe Arg  
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Asp Ala Glu Arg  
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Leu Gln Glu Ala Lys  
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Gln Gly Ala Leu Glu Leu Ile Lys  
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<400> 93

Gln Lys Pro Asp Gly Val Phe Gln Glu Asp Ala Pro Val Ile His Gln  
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Glu Met Ile Gly Gly Leu Arg  
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Gln Leu Tyr Asn Val Glu Ala Thr Ser Tyr Ala Leu Leu Ala Leu Leu  
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Gln Leu Lys

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Gln Pro Ser Ser Ala Phe Ala Ala Phe Val Lys  
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<210> 96  
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<400> 96

Ser Tyr Thr Val Ala Ile Ala Gly Tyr Ala Leu Ala Gln Met Gly Arg  
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<400> 97

Val Phe Ser Leu Ala Val Asn Leu Ile Ala Ile Asp Ser Gln Val Leu  
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Cys Gly Ala Val Lys  
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<400> 98

Tyr Tyr Gly Gly Gly Tyr Gly Ser Thr Gln Ala Thr Phe Met Val Phe  
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Gln Ala Leu Ala Gln Tyr Gln Lys  
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Ile His Trp Glu Ser Ala Ser Leu Leu Arg  
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<400> 100

Ile Thr His Arg Ile His Trp Glu Ser Ala Ser Leu Leu Arg  
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<400> 101

Asp Phe Ala Leu Leu Ser Leu Gln Val Pro Leu Lys  
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Gly Pro Glu Val Gln Leu Val Ala His Ser Pro Trp Leu Lys  
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His Leu Val Pro Gly Ala Pro Phe Leu Leu Gln Ala Leu Val Arg  
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Leu His Leu Glu Thr Asp Ser Leu Ala Leu Val Ala Leu Gly Ala Leu  
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Asp Thr Ala Leu Tyr Ala Ala Gly Ser Lys  
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<400> 105

Leu Leu Leu Phe Ser Pro Ser Val Val His Leu Gly Val Pro Leu Ser  
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Val Gly Val Gln Leu Gln Asp Val Pro Arg  
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Ser Cys Gly Leu His Gln Leu Leu Arg  
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Thr Thr Asn Ile Gln Gly Ile Asn Leu Leu Phe Ser Ser Arg  
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Val Asp Phe Thr Leu Ser Ser Glu Arg  
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Ala Ile Asn Glu Lys  
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<400> 110

Ala Ile Asn Glu Lys Leu Gly Gln Tyr Ala Ser Pro Thr Ala Lys  
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Cys Cys Gln Asp Gly Val Thr Arg  
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Cys Cys Gln Asp Gly Val Thr Arg Leu Pro Met Met Arg  
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Glu Pro Phe Leu Ser Cys Cys Gln Phe Ala Glu Ser Leu Arg  
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<400> 114

Glu Pro Phe Leu Ser Cys Cys Gln Phe Ala Glu Ser Leu Arg Lys  
21

1 5 10 15

<210> 115  
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<400> 115

Leu Gly Gln Tyr Ala Ser Pro Thr Ala Lys  
 1 5 10

<210> 116  
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<400> 116

Leu Gly Gln Tyr Ala Ser Pro Thr Ala Lys Arg  
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<210> 117  
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<400> 117

Leu Pro Met Met Arg  
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<400> 118

Asn Val Asn Phe Gln Lys  
 1 5

<210> 119  
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<400> 119

Asn Val Asn Phe Gln Lys Ala Ile Asn Glu Lys  
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<210> 120  
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<400> 120

Val Gln Gln Pro Asp Cys Arg Glu Pro Phe Leu Ser Cys Cys Gln Phe  
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Ala Glu Ser Leu Arg  
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<400> 121

Glu Ser Thr Leu His Leu Val Leu Arg  
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<210> 122  
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<400> 122

Ile Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg  
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<210> 123  
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<400> 123

Leu Ile Phe Ala Gly Lys  
1 5

<210> 124  
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<400> 124

Met Gln Ile Phe Val Lys  
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<210> 125  
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<400> 125

Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys  
1 5 10 15

<210> 126  
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<400> 126

Thr Ile Thr Leu Glu Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys  
23

1 5 10 15

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<400> 127

Thr Leu Ser Asp Tyr Asn Ile Gln Lys  
 1 5

<210> 128  
 <211> 18  
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<400> 128

Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu Ser Thr Leu His Leu Val  
 1 5 10 15

Leu Arg

<210> 129  
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 <212> PRT  
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<400> 129

Ala His Tyr Asp Leu Arg  
 1 5

<210> 130  
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 <212> PRT  
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<400> 130

Ala His Tyr Asp Leu Arg His Thr Phe Met Gly Val Val Ser Leu Gly  
 1 5 10 15

Ser Pro Ser Gly Glu Val Ser His Pro Arg  
 20 25

<210> 131  
 <211> 20  
 <212> PRT  
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<400> 131

His Thr Phe Met Gly Val Val Ser Leu Gly Ser Pro Ser Gly Glu Val  
 1 5 10 15

Ser His Pro Arg  
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<210> 132  
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<400> 132

Glu Glu Ser Leu Asp Ser Asp Leu Tyr Ala Glu Leu Arg  
 1 5 10

<210> 133  
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<400> 133

Gly Lys Glu Glu Ser Leu Asp Ser Asp Leu Tyr Ala Glu Leu Arg  
 1 5 10 15

<210> 134  
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 <212> PRT  
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<400> 134

Gly Thr His Cys Asn Gln Val Glu Val Ile Ala Thr Leu Lys  
 1 5 10

<210> 135  
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 <212> PRT  
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<400> 135

Ile Cys Leu Asp Pro Asp Ala Pro Arg  
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<210> 136  
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<400> 136

Lys Ile Cys Leu Asp Pro Asp Ala Pro Arg  
 1 5 10

<210> 137  
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 <212> PRT  
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<400> 137

Asn Ile Gln Ser Leu Glu Val Ile Gly Lys  
 1 5 10

<210> 138  
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 <212> PRT  
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<400> 138

Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn Gln  
 1 5 10 15

Val Glu Val Ile Ala Thr Leu Lys  
 20

<210> 139  
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<400> 139

Glu Glu Ser Leu Asp Ser Asp Leu Tyr Ala Glu Leu Arg  
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<210> 140  
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<400> 140

Gly Lys Glu Glu Ser Leu Asp Ser Asp Leu Tyr Ala Glu Leu Arg  
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<210> 141  
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<400> 141

Gly Thr His Cys Asn Gln Val Glu Val Ile Ala Thr Leu Lys  
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<210> 142  
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<400> 142

Ile Cys Leu Asp Pro Asp Ala Pro Arg  
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<400> 143

Lys Ile Cys Leu Asp Pro Asp Ala Pro Arg  
 1 5 10

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<400> 144

Asn Ile Gln Ser Leu Glu Val Ile Gly Lys  
 1 5 10

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<400> 145

Asn Ile Gln Ser Leu Glu Val Ile Gly Lys Gly Thr His Cys Asn Gln  
 1 5 10 15

Val Glu Val Ile Ala Thr Leu Lys  
 20

<210> 146  
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<400> 146

Cys Thr Glu Gly Phe Asn Val Asp Lys  
 1 5

<210> 147  
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 <212> PRT  
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<400> 147

Cys Thr Glu Gly Phe Asn Val Asp Lys Lys  
 1 5 10

<210> 148  
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 <212> PRT  
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<400> 148

Phe Gln Pro Thr Leu Leu Thr Leu Pro Arg  
 1 5 10

<210> 149  
 <211> 17  
 <212> PRT  
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<400> 149

Gly Val Thr Ser Val Ser Gln Ile Phe His Ser Pro Asp Leu Ala Ile  
 1 5 10 15

Arg

<210> 150  
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<400> 150

Leu Glu Asp Met Glu Gln Ala Leu Ser Pro Ser Val Phe Lys  
 1 5 10

<210> 151  
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 <212> PRT  
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<400> 151

Leu Val Leu Leu Asn Ala Ile Tyr Leu Ser Ala Lys  
 1 5 10

<210> 152  
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 <212> PRT  
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<400> 152

Thr Asn Leu Glu Ser Ile Leu Ser Tyr Pro Lys  
 1 5 10

<210> 153  
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 <212> PRT  
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<400> 153

Val Thr Thr Ser Gln Asp Met Leu Ser Ile Met Glu Lys  
 1 5 10

<210> 154  
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 <212> PRT  
 <213> Homo sapiens

<400> 154

Ala Gln Trp Ala Asn Pro Phe Asp Pro Ser Lys  
 1 5 10

<210> 155  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 155

Gly Trp Val Asp Leu Phe Val Pro Lys  
 1 5

&lt;210&gt; 156

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 156

Met Gly Ile Gln His Ala Tyr Ser Glu Asn Ala Asp Phe Ser Gly Leu  
 1 5 10 15

Thr Glu Asp Asn Gly Leu Lys  
 20

&lt;210&gt; 157

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 157

Asn Ala Leu Ala Leu Phe Val Leu Pro Lys  
 1 5 10

&lt;210&gt; 158

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 158

Asp Gln Val Asn Thr Phe Asp Asn Ile Phe Ile Ala Pro Val Gly Ile  
 1 5 10 15

Ser Thr Ala Met Gly Met Ile Ser Leu Gly Leu Lys  
 20 25

&lt;210&gt; 159

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 159

Glu Tyr Tyr Phe Ala Glu Ala Gln Ile Ala Asp Phe Ser Asp Pro Ala  
 1 5 10 15

Phe Ile Ser Lys  
 20

&lt;210&gt; 160

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 160

Phe Thr Val Asp Arg Pro Phe Leu Phe Leu Ile Tyr Glu His Arg  
1 5 10 15

<210> 161  
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<212> PRT  
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<400> 161

Gly Pro Leu Asp Gln Leu Glu Lys  
1 5

<210> 162  
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<212> PRT  
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<400> 162

Asn Tyr Asn Leu Val Glu Ser Leu Lys  
1 5

<210> 163  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 163

Gln Phe Pro Ile Leu Leu Asp Phe Lys  
1 5

<210> 164  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 164

Thr Leu Glu Ala Gln Leu Thr Pro Arg  
1 5

<210> 165  
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<212> PRT  
<213> Homo sapiens

<400> 165

Thr Ser Cys Leu Leu Phe Met Gly Arg  
1 5

<210> 166  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 166

Tyr Glu Ile Thr Thr Ile His Asn Leu Phe Arg  
30

1 5 10

<210> 167  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 167

Ala Val Cys Lys Pro Val Arg Cys Pro Ala Pro Val Ser Phe Glu Asn  
 1 5 10 15

Gly Ile Tyr Thr Pro Arg  
 20

<210> 168  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 168

Cys Pro Ala Pro Val Ser Phe Glu Asn Gly Ile Tyr Thr Pro Arg  
 1 5 10 15

<210> 169  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 169

Cys Ser Ser Asn Leu Val Leu Thr Gly Ser Ser Glu Arg  
 1 5 10

<210> 170  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 170

Cys Ser Ser Asn Leu Val Leu Thr Gly Ser Ser Glu Arg Glu Cys Gln  
 1 5 10 15

Gly Asn Gly Val Trp Ser Gly Thr Glu Pro Ile Cys Arg  
 20 25

<210> 171  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 171

Glu Cys Gln Gly Asn Gly Val Trp Ser Gly Thr Glu Pro Ile Cys Arg  
 1 5 10 15

<210> 172  
 <211> 31

<212> PRT  
 <213> Homo sapiens

<400> 172

Gln Pro Tyr Ser Tyr Asp Phe Pro Glu Asp Val Ala Pro Ala Leu Gly  
 1 5 10 15

Thr Ser Phe Ser His Met Leu Gly Ala Thr Asn Pro Thr Gln Lys  
 20 25 30

<210> 173  
 <211> 12  
 <212> PRT  
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<400> 173

Ser Ser Gly Gln Trp Gln Thr Pro Gly Ala Thr Arg  
 1 5 10

<210> 174  
 <211> 20  
 <212> PRT  
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<400> 174

Asp Gln Gly Ser Cys Gly Ser Cys Trp Ala Phe Gly Ala Val Glu Ala  
 1 5 10 15

Ile Ser Asp Arg  
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<210> 175  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 175

Glu Gln Trp Pro Gln Cys Pro Thr Ile Lys  
 1 5 10

<210> 176  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 176

Asn Asp Phe Gln Leu Ile Gly Ile Gln Asp Gly Tyr Leu Ser Leu Leu  
 1 5 10 15

Gln Asp Ser Gly Glu Val Arg  
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<210> 177  
 <211> 12  
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<213> Homo sapiens

<400> 177

Val His Leu Val Gly Ile Asp Ile Phe Thr Gly Lys  
1 5 10

<210> 178

<211> 12

<212> PRT

<213> Homo sapiens

<400> 178

Ala Ser Ser Ile Ile Asp Glu Leu Phe Gln Asp Arg  
1 5 10

<210> 179

<211> 16

<212> PRT

<213> Homo sapiens

<400> 179

Ala Ser Ser Ile Ile Asp Glu Leu Phe Gln Asp Arg Phe Phe Thr Arg  
1 5 10 15

<210> 180

<211> 18

<212> PRT

<213> Homo sapiens

<400> 180

Asp Gln Thr Val Ser Asp Asn Glu Leu Gln Glu Met Ser Asn Gln Gly  
1 5 10 15

Ser Lys

<210> 181

<211> 10

<212> PRT

<213> Homo sapiens

<400> 181

Glu Ile Gln Asn Ala Val Asn Gly Val Lys  
1 5 10

<210> 182

<211> 9

<212> PRT

<213> Homo sapiens

<400> 182

Ile Asp Ser Leu Leu Glu Asn Asp Arg  
1 5

<210> 183

<211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 183

Lys Thr Leu Leu Ser Asn Leu Glu Glu Ala Lys  
 1 5 10

<210> 184  
 <211> 15  
 <212> PRT  
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<400> 184

Gln Gln Thr His Met Leu Asp Val Met Gln Asp His Phe Ser Arg  
 1 5 10 15

<210> 185  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 185

Arg Pro His Phe Phe Phe Pro Lys  
 1 5

<210> 186  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 186

Thr Leu Leu Ser Asn Leu Glu Glu Ala Lys  
 1 5 10

<210> 187  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 187

Cys Pro Gly Cys Gly Gln Gly Val Gln Ala Gly Cys Pro Gly Gly Cys  
 1 5 10 15

Val Glu Glu Glu Asp Gly Gly Ser Pro Ala Glu Gly Cys Ala Glu Ala  
 20 25 30

Glu Gly Cys Leu Arg  
 35

<210> 188  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 188

Glu Gly Gln Glu Cys Gly Val Tyr Thr Pro Asn Cys Ala Pro Gly Leu  
 1 5 10 15

Gln Cys His Pro Pro Lys  
 20

<210> 189  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 189

Glu Gly Gln Glu Cys Gly Val Tyr Thr Pro Asn Cys Ala Pro Gly Leu  
 1 5 10 15

Gln Cys His Pro Pro Lys Asp Asp Glu Ala Pro Leu Arg  
 20 25

<210> 190  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 190

Gly Ala Gln Thr Leu Tyr Val Pro Asn Cys Asp His Arg  
 1 5 10

<210> 191  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 191

His Leu Asp Ser Val Leu Gln Gln Leu Gln Thr Glu Val Tyr Arg  
 1 5 10 15

<210> 192  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 192

Asn Pro Gly Thr Ser Thr Thr Pro Ser Gln Pro Asn Ser Ala Gly Val  
 1 5 10 15

Gln Asp Thr Glu Met Gly Pro Cys Arg  
 20 25

<210> 193  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 193

Asn Pro Gly Thr Ser Thr Thr Pro Ser Gln Pro Asn Ser Ala Gly Val  
 1 5 10 15

Gln Asp Thr Glu Met Gly Pro Cys Arg Arg  
 20 25

<210> 194  
 <211> 9  
 <212> PRT  
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<400> 194

Arg Gly Pro Cys Trp Cys Val Asp Arg  
 1 5

<210> 195  
 <211> 16  
 <212> PRT  
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<400> 195

Arg His Leu Asp Ser Val Leu Gln Gln Leu Gln Thr Glu Val Tyr Arg  
 1 5 10 15

<210> 196  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 196

Ser Leu Pro Gly Ser Pro Asp Gly Asn Gly Ser Ser Ser Cys Pro Thr  
 1 5 10 15

Gly Ser Ser Gly  
 20

<210> 197  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 197

Glu Ser Leu Leu Asn His Phe Leu Tyr Glu Val Ala Arg  
 1 5 10

<210> 198  
 <211> 11  
 <212> PRT  
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<400> 198

Phe Thr Asp Ser Glu Asn Val Cys Gln Glu Arg  
 1 5 10

<210> 199

<211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 199

Phe Thr Phe Glu Tyr Ser Arg  
 1 5

<210> 200  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 200

His Glu Leu Thr Asp Glu Glu Leu Gln Ser Leu Phe Thr Asn Phe Ala  
 1 5 10 15

Asn Val Val Asp Lys  
 20

<210> 201  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 201

Ile Ala Pro Gln Leu Ser Thr Glu Glu Leu Val Ser Leu Gly Glu Lys  
 1 5 10 15

<210> 202  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 202

Leu Lys His Glu Leu Thr Asp Glu Glu Leu Gln Ser Leu Phe Thr Asn  
 1 5 10 15

Phe Ala Asn Val Val Asp Lys  
 20

<210> 203  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 203

Leu Pro Asn Asn Val Leu Gln Glu Lys  
 1 5

<210> 204  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 204

Asn Pro Phe Val Phe Ala Pro Thr Leu Leu Thr Val Ala Val His Phe  
 1 5 10 15

Glu Glu Val Ala Lys  
 20

<210> 205  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 205

Arg His Pro Asp Leu Ser Ile Pro Glu Leu Leu Arg  
 1 5 10

<210> 206  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 206

Arg Asn Pro Phe Val Phe Ala Pro Thr Leu Leu Thr Val Ala Val His  
 1 5 10 15

Phe Glu Glu Val Ala Lys  
 20

<210> 207  
 <211> 7  
 <212> PRT  
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<400> 207

Ala Pro Tyr Tyr Asn Tyr Lys  
 1 5

<210> 208  
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 <212> PRT  
 <213> Homo sapiens

<400> 208

Ala Thr Tyr Ile Gln Asn Tyr Arg  
 1 5

<210> 209  
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<400> 209

Asp Ile Ile Asp Pro Ala Phe Arg  
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<210> 210  
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 <212> PRT  
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<400> 210

Asp Pro Ala Gly His Phe His Gln Val Trp Tyr Asp Asn Pro Gln Ser  
 1 5 10 15

Ile Ser Leu Lys  
 20

<210> 211  
 <211> 16  
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<400> 211

Glu Ile Glu Gly Ser Gln Val Thr Phe Asp Val Ala Trp Ser Pro Lys  
 1 5 10 15

<210> 212  
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 <212> PRT  
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<400> 212

Gly Ile Gly Met Trp Asn Ala Asn Cys Leu Asp Tyr Ser Gly Asp Ala  
 1 5 10 15

Val Ala Lys

<210> 213  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 213

His His Pro Asp Phe Glu Val Phe Val Phe Asp Val Gly Gln Lys  
 1 5 10 15

<210> 214  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 214

Gln Gln Thr Glu Glu Met Trp Glu Val Leu Lys Pro Lys  
 1 5 10

<210> 215  
 <211> 15  
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 <213> Homo sapiens

&lt;400&gt; 215

Ser Tyr Asp Trp Ser Gln Ile Thr Thr Val Ala Thr Phe Gly Lys  
 1 5 10 15

&lt;210&gt; 216

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 216

Thr Asp Cys Pro Cys Pro Glu Pro Glu Leu Cys Arg Pro Ile Arg  
 1 5 10 15

&lt;210&gt; 217

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 217

Thr Gln Tyr Met Asp Gly Ile Asn Ile Asp Ile Glu Gln Glu Val Asn  
 1 5 10 15

Cys Leu Ser Pro Glu Tyr Asp Ala Leu Thr Ala Leu Val Lys  
 20 25 30

&lt;210&gt; 218

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 218

Asp Ala Asn Ile Ser Gln Pro Glu Thr Thr Lys Glu Gly Leu Arg  
 1 5 10 15

&lt;210&gt; 219

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 219

Ser Gly Val Gln Gln Leu Ile Gln Tyr Tyr Gln Asp Gln Lys  
 1 5 10

&lt;210&gt; 220

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 220

Ser Tyr Asp Leu Asp Pro Gly Ala Gly Ser Leu Glu Ile  
 1 5 10

&lt;210&gt; 221

&lt;211&gt; 19

&lt;212&gt; PRT



<213> Homo sapiens

<400> 221

Ile Leu Glu Asp Gly Ser Ile Tyr Thr Thr His Asp Leu Ile Leu Ser  
1 5 10 15

Ser Glu Arg

<210> 222

<211> 20

<212> PRT

<213> Homo sapiens

<400> 222

Ile Leu Glu Asp Gly Ser Ile Tyr Thr Thr His Asp Leu Ile Leu Ser  
1 5 10 15

Ser Glu Arg Lys  
20

<210> 223

<211> 12

<212> PRT

<213> Homo sapiens

<400> 223

Lys Ser Phe Ser Ile Phe Leu Ser Asp Gly Gln Arg  
1 5 10

<210> 224

<211> 11

<212> PRT

<213> Homo sapiens

<400> 224

Ser Phe Ser Ile Phe Leu Ser Asp Gly Gln Arg  
1 5 10

<210> 225

<211> 12

<212> PRT

<213> Homo sapiens

<400> 225

Ser Phe Ser Ile Phe Leu Ser Asp Gly Gln Arg Arg  
1 5 10

<210> 226

<211> 8

<212> PRT

<213> Homo sapiens

<400> 226

Val Asn Leu Glu Glu Cys Leu Lys

1 5

<210> 227  
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 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 227

Val Pro Ser His Leu Gln Ala Glu Thr Leu Val Gly Lys  
 1 5 10

<210> 228  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 228

Val Pro Ser His Leu Gln Ala Glu Thr Leu Val Gly Lys Val Asn Leu  
 1 5 10 15

Glu Glu Cys Leu Lys  
 20

<210> 229  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 229

Val Tyr Leu Arg Val Pro Ser His Leu Gln Ala Glu Thr Leu Val Gly  
 1 5 10 15

Lys

<210> 230  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 230

Gly Glu Glu Ile Thr Thr Lys Pro Glu Asn Met Glu His Cys Tyr Tyr  
 1 5 10 15

Lys

<210> 231  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 231

His Leu Leu Gly Pro Asp Tyr Thr Glu Thr Leu Tyr Ser Pro Arg  
 1 5 10 15

<210> 232  
 <211> 13  
 <212> PRT  
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<400> 232

Asn Ser Val Ala Ser Ile Ser Thr Cys Asp Gly Leu Arg  
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<400> 233

Tyr Glu Pro Glu Val Gln Tyr Gln Met Ile Leu Asn Gly Glu Glu Ile  
 1 5 10 15

Ile Leu Ser Leu Gln Lys  
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<400> 234

Gly Phe Gly Gly Leu Thr Gly Gln Ile Val Ala Ala Leu Ser Thr Ala  
 1 5 10 15

Lys

<210> 235  
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<400> 235

Gly Gly Ser Ile Gln Gln Tyr Ile Tyr Lys  
 1 5 10

<210> 236  
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<400> 236

Gly His Tyr Phe Trp Met Leu Ser Pro Phe Ser Pro Pro Ser Pro Ala  
 1 5 10 15

Arg

<210> 237  
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 <212> PRT  
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<400> 237

Ile Thr Glu Val Trp Gly Ile Pro Ser Pro Ile Asp Thr Val Phe Thr  
 1 5 10 15

Arg

<210> 238  
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<400> 238

Arg Pro Ala Leu Asn Tyr Pro Val Tyr Gly Glu Thr Thr Gln Val Arg  
 1 5 10 15

<210> 239  
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<400> 239

Phe Gln Leu Phe Gly Ser Pro Ser Gly Gln Lys  
 1 5 10

<210> 240  
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<400> 240

Ile Asp Ser Gly Leu Tyr Leu Gly Ser Gly Tyr Phe Thr Ala Ile Gln  
 1 5 10 15

Asn Leu Arg

<210> 241  
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<400> 241

Cys Pro Ala Gly Val Ser Leu Val Leu Asp Gly Cys Gly Cys Cys Arg  
 1 5 10 15

<210> 242  
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&lt;400&gt; 242

Asp Gly Ala Pro Cys Ile Phe Gly Gly Thr Val Tyr Arg  
1 5 10

&lt;210&gt; 243

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 243

Gly Leu Phe Cys Asp Phe Gly Ser Pro Ala Asn Arg  
1 5 10

&lt;210&gt; 244

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 244

Leu Pro Ser Pro Asp Cys Pro Phe Pro Arg  
1 5 10

&lt;210&gt; 245

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 245

Gly Ile Asp Ser Asp Ala Ser Tyr Pro Tyr Lys  
1 5 10

&lt;210&gt; 246

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 246

Leu Val Ser Leu Ser Ala Gln Asn Leu Val Asp Cys Ser Thr Glu Lys  
1 5 10 15

&lt;210&gt; 247

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 247

Gly Asn His Cys Gly Ile Ala Ser Phe Pro Ser Tyr Pro Glu Ile  
1 5 10 15

&lt;210&gt; 248

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 248

Ala Trp Ile Leu Glu Arg Ala Phe Pro Gln Cys Leu Arg  
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<210> 249  
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<400> 249

Cys Ile Ser Gly His Ala Phe Phe Tyr Thr Gly Glu Arg  
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<210> 250  
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<400> 250

Asp Pro Cys Asp Pro Asn Pro Cys Gln Asn Asp Gly Ile Cys Val Asn  
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Val Lys

<210> 251  
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<400> 251

Ser Val Glu Asn Thr Gly Pro Leu Glu Asp His Asn Trp Pro Gln Tyr  
 1 5 10 15

Phe Arg

<210> 252  
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<400> 252

Asp Ser Phe His Leu Asp Glu Gln Phe Thr Val Pro Val Glu Met Met  
 1 5 10 15

Gln Ala Arg

<210> 253  
 <211> 26  
 <212> PRT  
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<400> 253

Gly Phe Pro Ile Lys Glu Asp Phe Leu Glu Gln Ser Glu Gln Leu Phe  
 1 5 10 15

Gly Ala Lys Pro Val Ser Leu Thr Gly Lys  
 20 25

<210> 254  
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<400> 254

His Gln Met Asp Leu Val Ala Thr Leu Ser Gln Leu Gly Leu Gln Glu  
 1 5 10 15

Leu Phe Gln Ala Pro Asp Leu Arg  
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<210> 255  
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<400> 255

Leu Cys Gln Asp Leu Gly Pro Gly Ala Phe Arg  
 1 5 10

<210> 256  
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<400> 256

Leu Gly Asn Gln Glu Pro Gly Gly Gln Thr Ala Leu Lys  
 1 5 10

<210> 257  
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<400> 257

Leu Gln Gln Val Leu His Ala Gly Ser Gly Pro Cys Leu Pro His Leu  
 1 5 10 15

Leu Ser Arg

<210> 258  
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<400> 258

Asn Lys Phe Asp Pro Ser Leu Thr Gln Arg

1 5 10

<210> 259  
 <211> 12  
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<400> 259

Asn Gln Glu Gln Val Ser Pro Leu Thr Leu Leu Lys  
 1 5 10

<210> 260  
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<400> 260

Gln Glu Asp Asp Leu Ala Asn Ile Asn Gln Trp Val Lys  
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<210> 261  
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<400> 261

Trp Phe Leu Leu Glu Gln Pro Glu Ile Gln Val Ala His Phe Pro Phe  
 1 5 10 15

Lys

<210> 262  
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<400> 262

Asp Phe Leu Gln Ser Leu Lys  
 1 5

<210> 263  
 <211> 16  
 <212> PRT  
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<400> 263

Glu Gln Gln Asp Ser Pro Gly Asn Lys Asp Phe Leu Gln Ser Leu Lys  
 1 5 10 15

<210> 264  
 <211> 10  
 <212> PRT  
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<400> 264



Gly Asp Lys Leu Phe Gly Pro Asp Leu Lys  
 1 5 10

<210> 265  
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<400> 265

Leu Phe Gly Pro Asp Leu Lys  
 1 5

<210> 266  
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<400> 266

Leu Val Pro Pro Met Glu Glu Asp Tyr Pro Gln Phe Gly Ser Pro Lys  
 1 5 10 15

<210> 267  
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 <212> PRT  
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<400> 267

Leu Asn Pro Gly Ala Leu Leu Pro Val Leu Thr Asp Pro Ala Leu Asn  
 1 5 10 15

Asp Leu Tyr Val Ile Ser Thr Phe Lys  
 20 25

<210> 268  
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 <212> PRT  
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<400> 268

Leu Asn Pro Gly Ala Leu Leu Pro Val Leu Thr Asp Pro Ala Leu Asn  
 1 5 10 15

Asp Leu Tyr Val Ile Ser Thr Phe Lys  
 20 25

<210> 269  
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 <212> PRT  
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<400> 269

Ala Leu Ala Gln Cys Ala Pro Pro Pro Ala Val Cys Ala Glu Leu Val  
 1 5 10 15

Arg

<210> 270  
 <211> 24  
 <212> PRT  
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&lt;400&gt; 270

Cys Glu Pro Cys Asp Ala Arg Ala Leu Ala Gln Cys Ala Pro Pro Pro  
 1 5 10 15

Ala Val Cys Ala Glu Leu Val Arg  
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<210> 271  
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&lt;400&gt; 271

Cys Gln Pro Ser Pro Asp Glu Ala Arg Pro Leu Gln Ala Leu Leu Asp  
 1 5 10 15

Gly Arg

<210> 272  
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&lt;400&gt; 272

Glu Pro Gly Cys Gly Cys Cys Leu Thr Cys Ala Leu Ser Glu Gly Gln  
 1 5 10 15

Pro Cys Gly Ile Tyr Thr Glu Arg  
 20

<210> 273  
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&lt;400&gt; 273

Phe His Pro Leu His Ser Lys  
 1 5

<210> 274  
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 <212> PRT  
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&lt;400&gt; 274

Gly Ala Ser Ser Gly Gly Leu Gly Pro Val Val Arg  
 50

1 5 10

<210> 275  
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 <212> PRT  
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<400> 275

Gly Leu Cys Val Asn Ala Ser Ala Val Ser Arg  
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<210> 276  
 <211> 15  
 <212> PRT  
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<400> 276

Ser Ala Gly Ser Val Glu Ser Pro Ser Val Ser Ser Thr His Arg  
 1 5 10 15

<210> 277  
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 <212> PRT  
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<400> 277

Ala Leu Ala Gln Cys Ala Pro Pro Pro Ala Val Cys Ala Glu Leu Val  
 1 5 10 15

Arg

<210> 278  
 <211> 18  
 <212> PRT  
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<400> 278

Cys Gln Pro Ser Pro Asp Glu Ala Arg Pro Leu Gln Ala Leu Leu Asp  
 1 5 10 15

Gly Arg

<210> 279  
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 <212> PRT  
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<400> 279

Glu Met Glu Asp Thr Leu Asn His Leu Lys  
 1 5 10

<210> 280  
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<212> PRT  
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<400> 280

Glu Pro Gly Cys Gly Cys Cys Leu Thr Cys Ala Leu Ser Glu Gly Gln  
 1 5 10 15

Pro Cys Gly Ile Tyr Thr Glu Arg  
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<210> 281  
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<400> 281

Glu Thr Glu Tyr Gly Pro Cys Arg  
 1 5

<210> 282  
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<400> 282

Phe Leu Asn Val Leu Ser Pro Arg  
 1 5

<210> 283  
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 <212> PRT  
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<400> 283

Gly Ala Ser Ser Gly Gly Leu Gly Pro Val Val Arg  
 1 5 10

<210> 284  
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<400> 284

Tyr Gly Gln Pro Leu Pro Gly Tyr Thr Thr Lys  
 1 5 10

<210> 285  
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<400> 285

Arg Gly Ser Gly Leu Gly Val Ser Ser Phe Leu Arg  
 1 5 10

<210> 286  
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 <212> PRT  
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<400> 286

Ile Ser His Glu Leu Asp Ser Ala Ser Ser Glu Val Asn  
 1 5 10

<210> 287  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 287

Ile Ser His Glu Leu Asp Ser Ala Ser Ser Glu Val Asn  
 1 5 10

<210> 288  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 288

Ala Asn Asp Glu Ser Asn Glu His Ser Asp Val Ile Asp Ser Gln Glu  
 1 5 10 15

Leu Ser Lys

<210> 289  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 289

Lys Ala Asn Asp Glu Ser Asn Glu His Ser Asp Val Ile Asp Ser Gln  
 1 5 10 15

Glu Leu Ser Lys  
 20

<210> 290  
 <211> 9  
 <212> PRT  
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<400> 290

Ile Pro Ala Cys Ile Ala Gly Glu Arg  
 1 5

<210> 291  
 <211> 6  
 <212> PRT  
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&lt;400&gt; 291

Leu Trp Ala Phe Cys Cys  
1 5

&lt;210&gt; 292

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 292

Asn Met Asp Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg  
1 5 10 15

&lt;210&gt; 293

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 293

Arg Tyr Gly Thr Cys Ile Tyr Gln Gly Arg  
1 5 10

&lt;210&gt; 294

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 294

Thr Trp Asp Arg Leu Met Leu Gln Asp Asn Cys Cys Gly Val Asn Gly  
1 5 10 15Pro Ser Asp Trp Gln Lys  
20

&lt;210&gt; 295

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 295

Ile Asn Leu Leu Gly Phe Leu Gly Leu Val His Cys Leu Pro Cys Lys  
1 5 10 15

&lt;210&gt; 296

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 296

Val Pro Val Leu Gly Cys Val Asp Arg  
1 5

&lt;210&gt; 297

&lt;211&gt; 17

&lt;212&gt; PRT

<213> Homo sapiens

<400> 297

Gly Ile Ile Trp Gly Glu Asp Thr Leu Met Glu Tyr Leu Glu Asn Pro  
1 5 10 15

Lys

<210> 298

<211> 7

<212> PRT

<213> Homo sapiens

<400> 298

Val Ile Asp Gln Phe Gly Glu  
1 5

<210> 299

<211> 9

<212> PRT

<213> Homo sapiens

<400> 299

Ser Ala Leu Val Leu Gln Tyr Leu Arg  
1 5

<210> 300

<211> 19

<212> PRT

<213> Homo sapiens

<400> 300

Ala Thr Thr Val Thr Gly Thr Pro Cys Gln Asp Trp Ala Ala Gln Glu  
1 5 10 15

Pro His Arg

<210> 301

<211> 11

<212> PRT

<213> Homo sapiens

<400> 301

His Ser Ile Phe Thr Pro Glu Thr Asn Pro Arg  
1 5 10

<210> 302

<211> 18

<212> PRT

<213> Homo sapiens

<400> 302

Asn Pro Asp Ala Asp Lys Gly Pro Trp Cys Phe Thr Thr Asp Pro Ser  
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1 5 10 15

Val Arg

<210> 303  
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 <212> PRT  
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<400> 303

Asn Pro Asp Gly Asp Val Gly Gly Pro Trp Cys Tyr Thr Thr Asn Pro  
 1 5 10 15

Arg

<210> 304  
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<400> 304

Gly Arg Pro Gly Pro Gln Pro Trp Cys Ala Thr Thr Pro Asn Phe Asp  
 1 5 10 15

Gln Asp Gln Arg  
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<210> 305  
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<400> 305

Lys Ser Leu Ser Ser Met Thr Arg  
 1 5

<210> 306  
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 <212> PRT  
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<400> 306

Leu Cys His Cys Pro Val Gly Tyr Thr Gly Pro Phe Cys Asp Val Asp  
 1 5 10 15

Thr Lys

<210> 307  
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 <212> PRT  
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&lt;400&gt; 307

Asn Gly Pro Leu Ser Cys Gly Gln Arg  
 1 5

&lt;210&gt; 308

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 308

Asn Pro Asp Asn Asp Ile Arg Pro Trp Cys Phe Val Leu Asn Arg  
 1 5 10 15

&lt;210&gt; 309

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 309

Ser Leu Ser Ser Met Thr Arg  
 1 5

&lt;210&gt; 310

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 310

Val Val Asp Val Leu Asp Ser Ile Lys  
 1 5

&lt;210&gt; 311

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 311

Cys Tyr Asn Glu Leu Asn Gly Cys Thr Lys  
 1 5 10

&lt;210&gt; 312

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 312

Ile Tyr Asp Pro Val Cys Gly Thr Asp Gly Asn Thr Tyr Pro Asn Glu  
 1 5 10 15

Cys Val Leu Cys Phe Glu Asn Arg  
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&lt;210&gt; 313

&lt;211&gt; 8

&lt;212&gt; PRT

<213> Homo sapiens

<400> 313

Gln Thr Ser Ile Leu Ile Gln Lys  
1 5

<210> 314

<211> 24

<212> PRT

<213> Homo sapiens

<400> 314

Ile Tyr Asp Pro Val Cys Gly Thr Asp Gly Asn Thr Tyr Pro Asn Glu  
1 5 10 15

Cys Val Leu Cys Phe Glu Asn Arg  
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<210> 315

<211> 8

<212> PRT

<213> Homo sapiens

<400> 315

Gln Thr Ser Ile Leu Ile Gln Lys  
1 5

<210> 316

<211> 5

<212> PRT

<213> Homo sapiens

<400> 316

Phe Gly Leu Glu Lys  
1 5

<210> 317

<211> 9

<212> PRT

<213> Homo sapiens

<400> 317

Gly Tyr Thr Gln Gln Leu Ala Phe Arg  
1 5

<210> 318

<211> 11

<212> PRT

<213> Homo sapiens

<400> 318

Gln Pro Ser Ser Ala Phe Ala Ala Phe Val Lys  
1 5 10

<210> 319

<211> 13  
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<400> 319

Ala Glu Met Ala Asp Gln Ala Ser Ala Trp Leu Thr Arg  
 1 5 10

<210> 320  
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 <212> PRT  
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<400> 320

Ala Ile Asn Glu Lys Leu Gly Gln Tyr Ala Ser Pro Thr Ala Lys  
 1 5 10 15

<210> 321  
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 <212> PRT  
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<400> 321

Gly Leu Glu Glu Glu Leu Gln Phe Ser Leu Gly Ser Lys  
 1 5 10

<210> 322  
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 <212> PRT  
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<400> 322

Leu Gly Gln Tyr Ala Ser Pro Thr Ala Lys  
 1 5 10

<210> 323  
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 <212> PRT  
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<400> 323

Leu Gly Gln Tyr Ala Ser Pro Thr Ala Lys Arg  
 1 5 10

<210> 324  
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 <212> PRT  
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<400> 324

Asn Gly Phe Lys Ser His Ala Leu Gln Leu Asn Asn Arg  
 1 5 10

<210> 325  
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<213> Homo sapiens

<400> 325

Gln Gly Ser Phe Gln Gly Gly Phe Arg  
1 5

<210> 326

<211> 10

<212> PRT

<213> Homo sapiens

<400> 326

Ser Phe Phe Pro Glu Asn Trp Leu Trp Arg  
1 5 10

<210> 327

<211> 9

<212> PRT

<213> Homo sapiens

<400> 327

Ser His Ala Leu Gln Leu Asn Asn Arg  
1 5

<210> 328

<211> 25

<212> PRT

<213> Homo sapiens

<400> 328

Ser Thr Gln Asp Thr Val Ile Ala Leu Asp Ala Leu Ser Ala Tyr Trp  
1 5 10 15

Ile Ala Ser His Thr Thr Glu Glu Arg  
20 25

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<212> PRT

<213> Homo sapiens

<400> 329

Val Gln Gln Pro Asp Cys Arg Glu Pro Phe Leu Ser Cys Cys Gln Phe  
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Ala Glu Ser Leu Arg  
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<210> 330

<211> 26

<212> PRT

<213> Homo sapiens

<400> 330

Val Thr Ala Ser Asp Pro Leu Asp Thr Leu Gly Ser Glu Gly Ala Leu  
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1 5 10 15

Ser Pro Gly Gly Val Ala Ser Leu Leu Arg  
20 25

<210> 331  
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<400> 331

Glu Asn Phe Leu Phe Leu Thr Pro Asp Cys Lys  
1 5 10

<210> 332  
<211> 14  
<212> PRT  
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<400> 332

Ile Ala Ser Phe Ser Gln Asn Cys Asp Ile Tyr Pro Gly Lys  
1 5 10

<210> 333  
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<400> 333

Ile Gly Glu Ile Lys Glu Glu Thr Thr Ser His Leu Arg  
1 5 10

<210> 334  
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<212> PRT  
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<400> 334

Gln Val Val Ala Gly Leu Asn Phe Arg  
1 5

<210> 335  
<211> 11  
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<400> 335

Thr Val Gly Ser Asp Thr Phe Tyr Ser Phe Lys  
1 5 10

<210> 336  
<211> 13  
<212> PRT  
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<400> 336

Ile Gly Glu Ile Lys Glu Glu Thr Thr Ser His Leu Arg  
 1 5 10

<210> 337  
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 <212> PRT  
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<400> 337

Asn Leu Leu Asp His Leu Glu Glu Lys  
 1 5

<210> 338  
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 <212> PRT  
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<400> 338

Phe Leu Ser Val Val Ser Ser Val Leu Thr Glu Lys  
 1 5 10

<210> 339  
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<400> 339

Ser Ile Asp Asp Ile Gly Gly Ala Leu Ser Lys  
 1 5 10

<210> 340  
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 <212> PRT  
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<400> 340

Thr Ile Ile Val Ser Met Trp Ala Lys  
 1 5

<210> 341  
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 <212> PRT  
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<400> 341

Val Val Ala Ala Val Gly Asp Ala Val Lys  
 1 5 10

<210> 342  
 <211> 19  
 <212> PRT  
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<400> 342

Met Ser Pro Trp Ser Glu Trp Ser Gln Cys Asp Pro Cys Leu Arg Gln  
 62

1 5 10 15

Met Phe Arg

<210> 343  
 <211> 13  
 <212> PRT  
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<400> 343

Arg Pro Trp Asn Val Ala Ser Leu Ile Tyr Glu Thr Lys  
 1 5 10

<210> 344  
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 <212> PRT  
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<400> 344

Val Val Glu Glu Ser Glu Leu Ala Arg  
 1 5

<210> 345  
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 <212> PRT  
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<400> 345

Ala Pro Gln Leu Arg Glu Thr Leu Leu Gln Asp Phe Arg  
 1 5 10

<210> 346  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 346

Glu Thr Leu Leu Gln Asp Phe Arg  
 1 5

<210> 347  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 347

Glu Thr Leu Leu Gln Asp Phe Arg Val Val Ala Gln Gly Val Gly Ile  
 1 5 10 15

Pro Glu Asp Ser Ile Phe Thr Met Ala Asp Arg  
 20 25

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<212> PRT  
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<400> 348

Gly Glu Cys Val Pro Gly Glu Gln Glu Pro Glu Pro Ile Leu Ile Pro  
 1 5 10 15

Arg

<210> 349  
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<400> 349

Gly Val Cys Glu Glu Thr Ser Gly Ala Tyr Glu Lys  
 1 5 10

<210> 350  
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 <212> PRT  
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<400> 350

Gly Val Cys Glu Glu Thr Ser Gly Ala Tyr Glu Lys Thr Asp Thr Asp  
 1 5 10 15

Gly Lys

<210> 351  
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<400> 351

Lys Gly Val Cys Glu Glu Thr Ser Gly Ala Tyr Glu Lys  
 1 5 10

<210> 352  
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<400> 352

Met Thr Val Ser Thr Leu Val Leu Gly Glu Gly Ala Thr Glu Ala Glu  
 1 5 10 15

Ile Ser Met Thr Ser Thr Arg  
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<210> 353  
 <211> 19  
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<213> Homo sapiens

<400> 353

Val Val Ala Gln Gly Val Gly Ile Pro Glu Asp Ser Ile Phe Thr Met  
1 5 10 15

Ala Asp Arg

<210> 354

<211> 36

<212> PRT

<213> Homo sapiens

<400> 354

Val Val Ala Gln Gly Val Gly Ile Pro Glu Asp Ser Ile Phe Thr Met  
1 5 10 15

Ala Asp Arg Gly Glu Cys Val Pro Gly Glu Gln Glu Pro Glu Pro Ile  
20 25 30

Leu Ile Pro Arg  
35

<210> 355

<211> 14

<212> PRT

<213> Homo sapiens

<400> 355

Trp Tyr Asn Leu Ala Ile Gly Ser Thr Cys Pro Trp Leu Lys  
1 5 10

<210> 356

<211> 17

<212> PRT

<213> Homo sapiens

<400> 356

Cys Leu Leu Phe Ser Phe Leu Pro Ala Ser Ser Ile Asn Asp Met Glu  
1 5 10 15

Lys

<210> 357

<211> 13

<212> PRT

<213> Homo sapiens

<400> 357

Cys Gln Phe Phe Ser Tyr Ala Thr Gln Thr Phe His Lys  
1 5 10

<210> 358  
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 <212> PRT  
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<400> 358

Asp Ser Val Thr Gly Thr Leu Pro Lys  
 1 5

<210> 359  
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<400> 359

Gly Cys Leu Thr Gln Leu Tyr Glu Asn Ala Phe Phe Arg  
 1 5 10

<210> 360  
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<400> 360

Gly Val Asn Val Cys Gln Glu Thr Cys Thr Lys  
 1 5 10

<210> 361  
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<400> 361

Leu Ser Met Asp Gly Ser Pro Thr Arg  
 1 5

<210> 362  
 <211> 21  
 <212> PRT  
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<400> 362

Thr Gly Ala Val Ser Gly His Ser Leu Lys Gln Cys Gly His Gln Ile  
 1 5 10 15

Ser Ala Cys His Arg  
 20

<210> 363  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 363

Thr Ser Glu Ser Gly Thr Pro Ser Ser Ser Thr Pro Gln Glu Asn Thr  
 1 5 10 15

Ile Ser Gly Tyr Ser Leu Leu Thr Cys Lys  
                   20                                  25

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<400> 364

Val Leu Thr Pro Asp Ala Phe Val Cys Arg  
   1                  5                                  10

<210> 365  
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<400> 365

Leu Val Gly Ile Thr Ser Trp Gly Glu Gly Cys Ala Arg  
   1                                  5                                  10

<210> 366  
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<400> 366

Val Ala Glu Tyr Met Asp Trp Ile Leu Glu Lys  
   1                  5                                  10

<210> 367  
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 <213> Homo sapiens

<400> 367

Val Ser Glu Gly Asn His Asp Ile Ala Leu Ile Lys  
   1                  5                                  10

<210> 368  
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 <212> PRT  
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<400> 368

Ser Gln Val Val Ala Gly Thr Asn Tyr Phe Ile Lys  
   1                  5                                  10

<210> 369  
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 <213> Homo sapiens

<400> 369

Val His Val Gly Asp Glu Asp Phe Val His Leu Arg  
1 5 10

<210> 370  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 370

Gly Leu Glu Thr Ser Leu Ala Glu Cys Thr Phe Thr Lys  
1 5 10

<210> 371  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 371

Ser Val Asn Pro Tyr Leu Gln Gly Gln Arg  
1 5 10

<210> 372  
<211> 17  
<212> PRT  
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<400> 372

Met Glu Leu Gln Val Ser Ser Gly Phe Val Cys Asn Thr Cys Pro Glu  
1 5 10 15

Lys

<210> 373  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 373

Gly Thr Val Gln Gly Gln Leu Gln Gly Pro Ile Ser Lys  
1 5 10

<210> 374  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 374

Leu Gly Leu Val Gly Trp Val Gln Asn Thr Asp Arg  
1 5 10

<210> 375  
<211> 17  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 375

Ile Ser Val Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln  
 1 5 10 15

Lys

&lt;210&gt; 376

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 376

Asn His Cys Gly Ile Ala Ser Ala Ala Ser Tyr Pro Thr Val  
 1 5 10

&lt;210&gt; 377

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 377

Asn Ser Trp Gly Glu Glu Trp Gly Met Gly Gly Tyr Val Lys  
 1 5 10

&lt;210&gt; 378

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 378

Asn Gly Pro Val Glu Gly Ala Phe Ser Val Tyr Ser Asp Phe Leu Leu  
 1 5 10 15

Tyr Lys

&lt;210&gt; 379

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 379

Cys His Glu Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr Pro  
 1 5 10 15

Thr Val Glu Tyr Pro Cys Gly Lys  
 20

&lt;210&gt; 380

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 380

Asn Leu Pro Ser Asp Ser Gln Asp Leu Gly Gln His Gly Leu Glu Glu  
 1 5 10 15

Asp Phe Met Leu  
 20

<210> 381  
 <211> 10  
 <212> PRT  
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<400> 381

Gly Leu Ser Ala Glu Pro Gly Trp Gln Ala  
 1 5 10

<210> 382  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 382

Ser Gly Glu Ala Thr Asp Gly Ala Arg Pro Gln Ala Leu Pro Glu Pro  
 1 5 10 15

Met Gln Glu Ser Lys  
 20

<210> 383  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 383

Tyr Pro Gly Pro Gln Ala Glu Gly Asp Ser Glu Gly Leu Ser Gln Gly  
 1 5 10 15

Leu Val Asp Arg  
 20

<210> 384  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 384

Tyr Pro Gly Pro Gln Ala Glu Gly Asp Ser Glu Gly Leu Ser Gln Gly  
 1 5 10 15

Leu Val Asp Arg Glu Lys  
 20

<210> 385  
 <211> 12  
 <212> PRT

<213> Homo sapiens

<400> 385

Phe Val Pro Ile Phe Thr Tyr Gly Glu Leu Gln Arg  
1 5 10

<210> 386

<211> 10

<212> PRT

<213> Homo sapiens

<400> 386

Ala Ile Glu Glu Asn Asn Asn Phe Ser Lys  
1 5 10

<210> 387

<211> 13

<212> PRT

<213> Homo sapiens

<400> 387

Ala Ser Gly Gln Ala Phe Glu Leu Ile Leu Ser Pro Arg  
1 5 10

<210> 388

<211> 9

<212> PRT

<213> Homo sapiens

<400> 388

Asp Leu Ser Leu Glu Glu Ile Gln Lys  
1 5

<210> 389

<211> 14

<212> PRT

<213> Homo sapiens

<400> 389

Cys Pro Asp Gly Ser Thr Cys Cys Glu Leu Pro Ser Gly Lys  
1 5 10

<210> 390

<211> 16

<212> PRT

<213> Homo sapiens

<400> 390

Ser Arg Cys Pro Asp Gly Ser Thr Cys Cys Glu Leu Pro Ser Gly Lys  
1 5 10 15

<210> 391

<211> 9

<212> PRT

<213> Homo sapiens

&lt;400&gt; 391

Cys Asp Glu Pro Ile Leu Ser Asn Arg  
1 5

&lt;210&gt; 392

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 392

Gly Asn Asp Ile Ser Ser Gly Thr Val Leu Ser Asp Tyr Val Gly Ser  
1 5 10 15Gly Pro Pro Lys  
20

&lt;210&gt; 393

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 393

Leu Tyr Thr Leu Val Leu Thr Asp Pro Asp Ala Pro Ser Arg  
1 5 10

&lt;210&gt; 394

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 394

Asn Arg Pro Thr Ser Ile Ser Trp Asp Gly Leu Asp Ser Gly Lys  
1 5 10 15

&lt;210&gt; 395

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 395

Cys Ala Ala Asp Leu Gly Leu Asn Lys  
1 5

&lt;210&gt; 396

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 396

Cys Leu Ala Phe His Asp Ile Ser Pro Gln Ala Pro Thr His Phe Leu  
1 5 10 15Val Ile Pro Lys  
20



<210> 397  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 397

Ile Ala Glu Phe Ala Phe Glu Tyr Ala Arg  
 1 5 10

<210> 398  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 398

Thr Pro Ile Ala Ala Gly His Pro Ser Met Asn Leu Leu Leu Arg  
 1 5 10 15

<210> 399  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 399

Tyr Cys Cys Leu Ser Gly Cys Thr Gln Gln Asp Leu Leu Thr Leu Cys  
 1 5 10 15

Pro Tyr

<210> 400  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 400

Glu Ala Ala Ala Asn Ala Gln Lys Trp Ala Asn Gln Cys Asn Tyr Arg  
 1 5 10 15

<210> 401  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 401

Glu Ile Val Asn Lys His Asn Glu Leu Arg  
 1 5 10

<210> 402  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 402

Leu Thr Leu Thr Cys Lys

1 5

<210> 403  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 403

Leu Tyr Val Pro Tyr Glu Gln Gly Ala Pro Cys Ala Ser Cys Pro Asp  
 1 5 10 15

Asn Cys Asp Asp Gly Leu Cys Thr Asn Gly Cys Lys  
 20 25

<210> 404  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 404

Met Glu Trp Asn Lys Glu Ala Ala Ala Asn Ala Gln Lys  
 1 5 10

<210> 405  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 405

Asn Glu Asp Lys Asp Pro Ala Phe Thr Ala Leu Leu Thr Thr Gln Thr  
 1 5 10 15

Gln Val Gln Arg  
 20

<210> 406  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 406

Ser Leu Lys Leu Thr Leu Thr Cys Lys  
 1 5

<210> 407  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 407

Thr Pro Asn Ala Val Val Gly His Tyr Thr Gln Val Val Trp Tyr Ser  
 1 5 10 15

Ser Tyr Leu Val Gly Cys Gly Asn Ala Tyr Cys Pro Asn Gln Lys  
 20 25 30

<210> 408  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 408

Val Leu Lys Tyr Tyr Tyr Val Cys Gln Tyr Cys Pro Ala Gly Asn Trp  
 1 5 10 15

Ala Asn Arg

<210> 409  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 409

Trp Ala Asn Gln Cys Asn Tyr Arg  
 1 5

<210> 410  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 410

Tyr Glu Asp Leu Tyr Ser Asn Cys Lys  
 1 5

<210> 411  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 411

Tyr Tyr Tyr Val Cys Gln Tyr Cys Pro Ala Gly Asn Trp Ala Asn Arg  
 1 5 10 15

<210> 412  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 412

Phe Ile Val Asp Tyr Ser Glu Thr Ser Pro Gln Cys Pro Lys Pro Gly  
 1 5 10 15

Val Ile Leu Leu Thr Lys  
 20

<210> 413  
 <211> 14  
 <212> PRT

<213> Homo sapiens

<400> 413

Leu Val Val Glu Cys Val Met Asn Asn Val Thr Cys Thr Arg  
1 5 10

<210> 414

<211> 5

<212> PRT

<213> Homo sapiens

<400> 414

Asn Leu Thr Ile Lys  
1 5

<210> 415

<211> 20

<212> PRT

<213> Homo sapiens

<400> 415

Gly Ala Asn Asp Gln Asp Phe Ala Val Ser Phe Ala Glu Asp Ala Ser  
1 5 10 15

Ser Ser Leu Arg  
20

<210> 416

<211> 20

<212> PRT

<213> Homo sapiens

<400> 416

Ser Cys Tyr Ser Thr Glu Tyr Ser Tyr Gly Thr Cys Thr Val Met Gly  
1 5 10 15

Ile Asn His Arg  
20

<210> 417

<211> 10

<212> PRT

<213> Homo sapiens

<400> 417

Glu Pro Asn Ala Gln Glu Ile Leu Gln Arg  
1 5 10

<210> 418

<211> 11

<212> PRT

<213> Homo sapiens

<400> 418

Leu Lys Asp Leu Gln Glu Pro Gln Glu Pro Arg  
76

1 5 10

<210> 419  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 419

Glu Glu Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys  
1 5 10 15

<210> 420  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 420

Glu Glu Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys  
1 5 10 15

Asp Arg

<210> 421  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 421

Ile Pro Gly Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Ala Glu Cys  
1 5 10 15

Thr Phe

<210> 422  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 422

Ile Thr Phe Glu Leu Val Tyr Glu Glu Leu Leu Lys  
1 5 10

<210> 423  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 423

Leu Gly Val Tyr Glu Leu Leu Lys  
1 5

<210> 424  
<211> 22

<212> PRT  
 <213> Homo sapiens

<400> 424

Gln Gly Pro Val Asn Leu Leu Ser Asp Pro Glu Gln Gly Val Glu Val  
 1 5 10 15

Thr Gly Gln Tyr Glu Arg  
 20

<210> 425  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 425

Glu Ala Pro Leu Leu Leu Pro Ser Trp Val Gln Glu Leu Trp Glu Thr  
 1 5 10 15

Arg

<210> 426  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 426

Leu Ser Glu Leu Ile Gln Pro Leu Pro Leu Glu Arg  
 1 5 10

<210> 427  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 427

Thr Ala Asp Gly Asp Phe Pro Asp Thr Ile Gln Cys Ala Tyr Ile His  
 1 5 10 15

Leu Val Ser Arg  
 20

<210> 428  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 428

His Gln Asn Thr Phe Leu His Asp Ser Phe Gln Asn Val Ala Ala Val  
 1 5 10 15

Cys Asp Leu Leu Ser Ile Val Cys Lys  
 20 25

<210> 429  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 429

Ala Gly Glu Asn Gln Glu His Arg Arg  
 1 5

<210> 430  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 430

Met Ser Gly Gly Thr Pro Tyr Ile Gly Ser Lys  
 1 5 10

<210> 431  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 431

Ala Gly Leu Leu Arg Pro Asp Tyr Ala Leu Leu Gly His Arg  
 1 5 10

<210> 432  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 432

Ala Lys Ser Pro Pro Thr Met Val Asp Ser Leu Leu Ala Val Thr Leu  
 1 5 10 15

Ala Gly Asn Leu Gly Leu Thr Phe Leu Arg  
 20 25

<210> 433  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 433

Ala Ser Leu Leu Thr Met Ala Phe Leu Asn Gly Ala Leu Asp Gly Val  
 1 5 10 15

Ile Leu Gly Asp Tyr Leu Ser Arg  
 20

<210> 434  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 434

Asp Gly Ser Pro Asp Val Thr Thr Ala Asp Ile Gly Ala Asn Thr Pro  
 1 5 10 15

Asp Ala Thr Lys  
 20

&lt;210&gt; 435

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 435

Glu Phe Thr Glu Ala Phe Leu Gly Cys Pro Ala Ile His Pro Arg  
 1 5 10 15

&lt;210&gt; 436

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 436

Glu Gly Lys Glu Tyr Gly Val Val Leu Ala Pro Asp Gly Ser Thr Val  
 1 5 10 15

Ala Val Glu Pro Leu Leu Ala Gly Leu Glu Ala Gly Leu Gln Gly Arg  
 20 25 30

&lt;210&gt; 437

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 437

Glu Tyr Gly Val Val Leu Ala Pro Asp Gly Ser Thr Val Ala Val Glu  
 1 5 10 15

Pro Leu Leu Ala Gly Leu Glu Ala Gly Leu Gln Gly Arg  
 20 25

&lt;210&gt; 438

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 438

Gly Cys Pro Asp Val Gln Ala Ser Leu Pro Asp Ala Lys  
 1 5 10

&lt;210&gt; 439

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



&lt;400&gt; 439

Gly Ser Gln Thr Gln Ser His Pro Asp Leu Gly Thr Glu Gly Cys Trp  
 1 5 10 15

Asp Gln Leu Ser Ala Pro Arg  
 20

&lt;210&gt; 440

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 440

His Thr Ala Ser Ala Trp Leu Met Ser Ala Pro Asn Ser Gly Pro His  
 1 5 10 15

Asn Arg

&lt;210&gt; 441

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 441

Leu Leu Gln Leu Pro Leu Gly Phe Leu Tyr Val His His Thr Tyr Val  
 1 5 10 15

Pro Ala Pro Pro Cys Thr Asp Phe Thr Arg  
 20 25

&lt;210&gt; 442

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 442

Gln Asn Gly Ala Ala Leu Thr Ser Ala Ser Ile Leu Ala Gln Gln Val  
 1 5 10 15

Trp Gly Thr Leu Val Leu Leu Gln Arg  
 20 25

&lt;210&gt; 443

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 443

Arg Gln Asn Gly Ala Ala Leu Thr Ser Ala Ser Ile Leu Ala Gln Gln  
 1 5 10 15

Val Trp Gly Thr Leu Val Leu Leu Gln Arg  
 20 25

<210> 444  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 444

Ser Leu Pro Leu Leu Met Asp Ser Val Ile Gln Ala Leu Ala Glu Leu  
 1 5 10 15

Glu Gln Lys

<210> 445  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 445

Ser Pro Pro Thr Met Val Asp Ser Leu Leu Ala Val Thr Leu Ala Gly  
 1 5 10 15

Asn Leu Gly Leu Thr Phe Leu Arg  
 20

<210> 446  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 446

Thr Asp Cys Pro Gly Asp Ala Leu Phe Asp Leu Leu Arg  
 1 5 10

<210> 447  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 447

Thr Phe Thr Leu Leu Asp Pro Lys  
 1 5

<210> 448  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 448

Thr Pro Glu Pro Arg Pro Ser Leu Ser His Leu Leu Ser Gln Tyr Tyr  
 1 5 10 15

Gly Ala Gly Val Ala Arg  
 20

<210> 449  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 449

Val Ile Asn Leu Pro Leu Asp Ser Met Ala Ala Pro Trp Glu Thr Gly  
 1 5 10 15

Asp Thr Phe Pro Asp Val Val Ala Ile Ala Pro Asp Val Arg  
 20 25 30

<210> 450  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 450

Trp Gly Ala Ala Pro Tyr Arg  
 1 5

<210> 451  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 451

Tyr His Gln Asp Thr Gln Gly Trp Gly Asp Ile Gly Tyr Ser Phe Val  
 1 5 10 15

Val Gly Ser Asp Gly Tyr Val Tyr Glu Gly Arg  
 20 25

<210> 452  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 452

Phe Phe Gln Ser Leu Asp Gly Ile Met Phe Ile Asn Lys  
 1 5 10

<210> 453  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 453

Ser Cys Pro Gln Trp Asn Ser Leu Ser Thr Cys His Ile Arg  
 1 5 10

<210> 454  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 454

Ala Phe Ser Ala Val Asp Thr Asp Gly Asn Gly Thr Ile Asn Ala Gln  
 1 5 10 15

Glu Leu Gly Ala Ala Leu Lys  
 20

&lt;210&gt; 455

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 455

Gln Gln Met Glu Glu Gln Val Ala Gln Lys  
 1 5 10

&lt;210&gt; 456

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 456

Cys Asn Asn Gly Ile Cys Ile Pro Val Thr Glu Ser Ile Leu Thr Pro  
 1 5 10 15

His Ile Pro Ala Leu Asp Gly Thr Arg  
 20 25

&lt;210&gt; 457

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 457

Lys Val Ala Ile Leu Asn Tyr Gly Arg  
 1 5

&lt;210&gt; 458

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 458

Phe Ala Val Glu Thr Leu Ile Cys Ser  
 1 5

&lt;210&gt; 459

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 459

Gly Gln Tyr Asp Glu Glu Glu Met Thr Met Gln Gln Ala Lys  
 1 5 10

<210> 460  
 <211> 12  
 <212> PRT  
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<400> 460

Val Leu Leu Ala Gly Ala Pro Gln Ala Gln Gln Arg  
 1 5 10

<210> 461  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 461

Ile Ala Gln Ser Ser Leu Cys Asn  
 1 5

<210> 462  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 462

Lys Leu Val Asp Thr Leu Pro Gln Lys Pro Arg  
 1 5 10

<210> 463  
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<400> 463

Leu Val Asp Thr Leu Pro Gln Lys Pro Arg  
 1 5 10

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<400> 464

Asp Val His Glu Gly Gln Pro Leu Leu Asn Val Lys  
 1 5 10

<210> 465  
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<400> 465

Glu Ser Ala Glu Val Glu Glu Ile Val Phe Pro Arg  
 1 5 10

<210> 466  
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<400> 466

Leu Ser Leu Lys Pro Thr Leu Thr Glu Glu Ser Val Lys  
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<210> 467  
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<400> 467

Leu Ser Leu Lys Pro Thr Leu Thr Glu Glu Ser Val Lys Glu Ser Ala  
 1 5 10 15

Glu Val Glu Glu Ile Val Phe Pro Arg  
 20 25

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<400> 468

Thr Gly Phe Pro Glu Asp Val Tyr Ser Ala Val Leu Ser Lys  
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<210> 469  
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 <212> PRT  
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<400> 469

Val Gln Tyr Glu Ser Ser Glu Pro Ala Asp Phe Lys Val Asp Glu Asp  
 1 5 10 15

Gly Met Val Tyr Ala Val Arg  
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<400> 470

Trp Gln Val Ala Val Lys  
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<210> 471  
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&lt;400&gt; 471

Phe Asn Ala Pro Phe Asp Val Gly Ile Lys  
1 5 10

&lt;210&gt; 472

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 472

Cys Gly Val Pro Asp Lys Phe Gly Ala Glu Ile Lys  
1 5 10

&lt;210&gt; 473

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 473

Phe Tyr Gly Leu Gln Val Thr Gly Lys  
1 5

&lt;210&gt; 474

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 474

Ser Pro Gln Ser Leu Ser Ala Ala Ile Ala Ala Met Gln Lys  
1 5 10

&lt;210&gt; 475

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 475

Asp Phe Asn Leu Leu Gln Val Ser Glu Pro Ser Glu Pro Cys Val Arg  
1 5 10 15

&lt;210&gt; 476

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 476

Leu Tyr Leu Asp Ile His Asn Tyr Cys Val Leu Asp Lys  
1 5 10

&lt;210&gt; 477

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 477

Ala Gly Ala Ala Ala Gly Gly Pro Gly Val Ser Gly Val Cys Val Cys  
 1 5 10 15

Lys

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Glu Asp Ala Gly Glu Tyr Glu Cys His Ala Ser Asn Ser Gln Gly Gln  
 1 5 10 15

Ala Ser Ala Ser Ala Lys  
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<400> 479

Gly Thr Cys Glu Gln Gly Pro Ser Ile Val Thr Pro Pro Lys  
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Ile Thr Val Val Asp Ala Leu His Glu Ile Pro Val Lys  
 1 5 10

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<400> 481

Ile Thr Val Val Asp Ala Leu His Glu Ile Pro Val Lys Lys  
 1 5 10

<210> 482  
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<400> 482

Ser Arg Tyr Pro Val Cys Gly Ser Asp Gly Thr Thr Tyr Pro Ser Gly  
 1 5 10 15

Cys Gln Leu Arg



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Thr Glu Leu Leu Pro Gly Asp Arg Asp Asn Leu Ala Ile Gln Thr Arg  
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Asp Ala Cys Gly Cys Cys Pro Met Cys Ala Arg  
 1 5 10

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Gly Tyr Cys Ala Pro Gly Met Glu Cys Val Lys  
 1 5 10

<210> 486  
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Gly Ile Leu Gly Asp Trp Ser Asn Ala Ile Ser Ala Leu Tyr Cys Arg  
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Ala Ala Ala Phe Leu Gly Asp Ile Ala Leu Asp Glu Glu Asp Leu Arg  
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Gly Asp Gly Glu Leu Ser Trp Glu His Ser Asp Gly Asp Ile Phe Arg  
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Ala Val Leu Asp Gly Cys Ser Cys Cys Leu Val Cys Ala Arg  
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Asp Gly Gln Ile Gly Cys Val Pro Arg  
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Gly Thr Asn Tyr Leu Ala Asp Val Phe Glu Lys  
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Gly Thr Asn Tyr Leu Ala Asp Val Phe Glu Lys  
 1 5 10

<210> 493  
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<400> 493

Ser Ile Ile Gly Met Ile Asp Met Phe His Lys  
 1 5 10

<210> 494  
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<400> 494

Ala Leu Asn Cys His Leu Pro Ala Ile Ile Phe Val Thr Lys  
 1 5 10

<210> 495

<211> 15  
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<400> 495

Lys Ala Leu Asn Cys His Leu Pro Ala Ile Ile Phe Val Thr Lys  
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<210> 496  
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Val Pro Glu Trp Val Asn Thr Pro Ser Thr Cys Cys Leu Lys  
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<210> 497  
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Ala Gly Glu Asp Pro His Ser Phe Tyr Phe Pro Gly Gln Phe Ala Phe  
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Ser Lys

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<400> 498

Cys Leu Ala Cys Ile Lys  
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<210> 499  
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<400> 499

Gly Leu Gln Val Ala Leu Glu Glu Phe His Lys  
 1 5 10

<210> 500  
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<400> 500

His Pro Pro Val Gln Trp Ala Phe Gln Glu Thr Ser Val Glu Ser Ala  
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Val Asp Thr Pro Phe Pro Ala Gly Ile Phe Val Arg  
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<210> 501  
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<400> 501

Leu Gly Ser Glu Asp Lys Val Leu Gly Arg  
 1 5 10

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<400> 502

Leu Val His Cys Pro Ile Glu Thr Gln Val Leu Arg  
 1 5 10

<210> 503  
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 <212> PRT  
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<400> 503

Val Val Asn Asn Ser Pro Gln Pro Gln Asn Val Val Phe Asp Val Gln  
 1 5 10 15

Ile Pro Lys

<210> 504  
 <211> 19  
 <212> PRT  
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<400> 504

Val Val Asn Asn Ser Pro Gln Pro Gln Asn Val Val Phe Asp Val Gln  
 1 5 10 15

Ile Pro Lys

<210> 505  
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<400> 505

Ala Glu Ala Gln Ala Gln Tyr Ser Ala Ala Val Ala Lys  
 1 5 10

<210> 506  
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 <212> PRT  
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<400> 506

Ala Asn Thr Val Gln Glu Ala Thr Phe Gln Met Glu Leu Pro Lys  
 1 5 10 15

<210> 507  
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Glu Lys Asn Gly Ile Asp Ile Tyr Ser Leu Thr Val Asp Ser Arg  
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<210> 508  
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<400> 508

Phe Ala His Thr Val Val Thr Ser Arg  
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<400> 509

Ala Leu Asp Gln Tyr Leu Met Glu Phe Asn Ala Cys Arg  
 1 5 10

<210> 510  
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 <212> PRT  
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<400> 510

Leu Gly Ser Leu Gly Ala Ala Cys Glu Gln Thr Gln Thr Glu Gly Ala  
 1 5 10 15

Lys

<210> 511  
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 <212> PRT  
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<400> 511

Ser Leu Lys Tyr Asn Pro Val Val Ile Asp Phe Glu Met Gln Pro Ile  
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His Glu Val Leu Arg  
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<210> 512  
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<212> PRT  
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<400> 512

Tyr Asn Pro Val Val Ile Asp Phe Glu Met Gln Pro Ile His Glu Val  
1 5 10 15

Leu Arg

<210> 513  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 513

Val Ser Thr Gln Asn Leu Leu Leu Leu Leu Thr Asp Asn Glu Ala Trp  
1 5 10 15

Asn Gly Phe Val Ala Ala Ala Glu Leu Pro Arg  
20 25

<210> 514  
<211> 22  
<212> PRT  
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<400> 514

Glu Phe Leu Gly Glu Asn Ile Ser Asn Phe Leu Ser Leu Ala Gly Asn  
1 5 10 15

Thr Tyr Gln Leu Thr Arg  
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<210> 515  
<211> 13  
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<400> 515

Trp Trp Thr Gln Ala Gln Ala His Asp Leu Val Ile Lys  
1 5 10

<210> 516  
<211> 15  
<212> PRT  
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<400> 516

Gln Val Ile Leu Thr Leu Gln Pro Thr Leu Val Ala Val Gly Lys  
 1 5 10 15

<210> 517  
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 <212> PRT  
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<400> 517

Val Asn Asp Asp Ile Ile Val Asn Trp Val Asn Glu Thr Leu Arg  
 1 5 10 15

<210> 518  
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<400> 518

Val Asn His Leu Tyr Ser Asp Leu Ser Asp Ala Leu Val Ile Phe Gln  
 1 5 10 15

Leu Tyr Glu Lys  
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<210> 519  
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<400> 519

Ala Leu Leu Leu Leu Asn Pro Ala Ser Phe Ser Ile Gln Leu Thr Pro  
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Gly Gly Gly Pro Leu Ser Leu Arg  
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<210> 520  
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<400> 520

Ala Gln Asn Asp Gln Leu Gly Trp Leu Trp Gly Gln Ser Arg  
 1 5 10

<210> 521  
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<400> 521

Asp Phe Ala Leu Leu Ser Leu Gln Val Pro Leu Lys  
 1 5 10

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Gly Pro Glu Val Gln Leu Val Ala His Ser Pro Trp Leu Lys  
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<400> 523

Ser Cys Gly Leu His Gln Leu Leu Arg  
 1 5

<210> 524  
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<400> 524

Thr Thr Asn Ile Gln Gly Ile Asn Leu Leu Phe Ser Ser Arg  
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<210> 525  
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Ile Leu His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val Lys  
 1 5 10 15

<210> 526  
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<400> 526

Leu Pro Gly Thr Tyr Val Val Val Leu Lys  
 1 5 10

<210> 527  
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<400> 527

Met Ser Gly Asp Leu Leu Glu Leu Ala Leu Lys  
 1 5 10

<210> 528  
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<212> PRT  
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<400> 528

Ser Glu Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala  
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Thr Phe His Arg  
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Ser Ser Leu Ser Val Pro Tyr Val Ile Val Pro Leu Lys  
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<210> 530  
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Thr Gly Leu Gln Glu Val Glu Val Lys  
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Leu Ser Gly Ala Leu His Val Tyr Ser Leu Gly Ser Asp  
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<210> 532  
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<400> 532

Asn Gln Val Val Ile Ala Ala Gly Arg  
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<400> 533

Gln Val Pro Gly Phe Gly Ala Ala Asp Ala Leu Gly Asn Arg  
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<210> 534  
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Val Gly Glu Ala Ala His Ala Leu Gly Asn Thr Gly His Glu Ile Gly  
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Arg

<210> 535  
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<400> 535

Val Ser Glu Ala Leu Gly Gln Gly Thr Arg  
 1 5 10

<210> 536  
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 <212> PRT  
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<400> 536

Ala Ile Gly Lys Glu Ala Gly Gly Ala Ala Gly Ser Lys  
 1 5 10

<210> 537  
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<400> 537

Gln Val Pro Gly Phe Gly Ala Ala Asp Ala Leu Gly Asn Arg  
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<210> 538  
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Gln Val Pro Gly Phe Gly Val Ala Asp Ala Leu Gly Asn Arg  
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<210> 539  
 <211> 17  
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<400> 539

Val Gly Glu Ala Ala His Ala Leu Gly Asn Thr Gly His Glu Ile Gly  
 1 5 10 15

Arg

<210> 540  
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 <212> PRT  
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<400> 540

Ala Leu Tyr Tyr Asp Leu Ile Ser Ser Pro Asp Ile His Gly Thr Tyr  
 1 5 10 15

Lys

<210> 541  
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<400> 541

Asp Thr Asp Thr Gly Ala Leu Leu Phe Ile Gly Lys  
 1 5 10

<210> 542  
 <211> 17  
 <212> PRT  
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<400> 542

Glu Ile Pro Asp Glu Ile Ser Ile Leu Leu Leu Gly Val Ala His Phe  
 1 5 10 15

Lys

<210> 543  
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 <212> PRT  
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<400> 543

Glu Leu Leu Asp Thr Val Thr Ala Pro Gln Lys  
 1 5 10

<210> 544  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 544

Ile Ala Gln Leu Pro Leu Thr Gly Ser Met Ser Ile Ile Phe Phe Leu  
 1 5 10 15

Pro Leu Lys

<210> 545  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 545

Lys Thr Ser Leu Glu Asp Phe Tyr Leu Asp Glu Glu Arg  
 1 5 10

<210> 546  
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 <212> PRT  
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&lt;400&gt; 546

Leu Ala Ala Ala Val Ser Asn Phe Gly Tyr Asp Leu Tyr Arg  
 1 5 10

<210> 547  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 547

Leu Asp Leu Gln Glu Ile Asn Asn Trp Val Gln Ala Gln Met Lys  
 1 5 10 15

<210> 548  
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 <212> PRT  
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&lt;400&gt; 548

Leu Gln Ser Leu Phe Asp Ser Pro Asp Phe Ser Lys  
 1 5 10

<210> 549  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 549

Ser Ser Met Ser Pro Thr Thr Asn Val Leu Leu Ser Pro Leu Ser Val  
 1 5 10 15

Ala Thr Ala Leu Ser Ala Leu Ser Leu Gly Ala Glu Gln Arg  
 20 25 30

<210> 550  
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 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 550

Thr Ser Leu Glu Asp Phe Tyr Leu Asp Glu Glu Arg  
 1 5 10

&lt;210&gt; 551

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 551

Tyr Gly Leu Asp Ser Asp Leu Ser Cys Lys  
 1 5 10

&lt;210&gt; 552

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 552

Ala Leu Ala Gln Cys Ala Pro Pro Pro Ala Val Cys Ala Glu Leu Val  
 1 5 10 15

Arg

&lt;210&gt; 553

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 553

Cys Gln Pro Ser Pro Asp Glu Ala Arg Pro Leu Gln Ala Leu Leu Asp  
 1 5 10 15

Gly Arg

&lt;210&gt; 554

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 554

Glu Met Glu Asp Thr Leu Asn His Leu Lys  
 1 5 10

&lt;210&gt; 555

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 555

Glu Met Glu Asp Thr Leu Asn His Leu Lys Phe Leu Asn Val Leu Ser  
 1 5 10 15

Pro Arg

<210> 556  
 <211> 24  
 <212> PRT  
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&lt;400&gt; 556

Glu Pro Gly Cys Gly Cys Cys Leu Thr Cys Ala Leu Ser Glu Gly Gln  
 1 5 10 15

Pro Cys Gly Ile Tyr Thr Glu Arg  
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<210> 557  
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 <212> PRT  
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&lt;400&gt; 557

Glu Thr Glu Tyr Gly Pro Cys Arg  
 1 5

<210> 558  
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 <212> PRT  
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&lt;400&gt; 558

Phe Leu Asn Val Leu Ser Pro Arg  
 1 5

<210> 559  
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 <212> PRT  
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&lt;400&gt; 559

Gly Ala Ser Ser Gly Gly Leu Gly Pro Val Val Arg  
 1 5 10

<210> 560  
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&lt;400&gt; 560

Gly Phe Cys Trp Cys Val Asp Lys  
 1 5

<210> 561  
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<213> Homo sapiens

<400> 561

Gly Phe Cys Trp Cys Val Asp Lys Tyr Gly Gln Pro Leu Pro Gly Tyr  
1 5 10 15

Thr Thr Lys

<210> 562

<211> 9

<212> PRT

<213> Homo sapiens

<400> 562

Gly Val His Ile Pro Asn Cys Asp Lys  
1 5

<210> 563

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<213> Homo sapiens

<400> 563

Gly Val His Ile Pro Asn Cys Asp Lys Lys  
1 5 10

<210> 564

<211> 9

<212> PRT

<213> Homo sapiens

<400> 564

Arg Glu Thr Glu Tyr Gly Pro Cys Arg  
1 5

<210> 565

<211> 9

<212> PRT

<213> Homo sapiens

<400> 565

Arg Gly Phe Cys Trp Cys Val Asp Lys  
1 5

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<400> 566

Ser Ala Gly Ser Val Glu Ser Pro Ser Val Ser Ser Thr His Arg  
1 5 10 15

<210> 567

<211> 11  
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<400> 567

Tyr Gly Gln Pro Leu Pro Gly Tyr Thr Thr Lys  
 1 5 10

<210> 568  
 <211> 20  
 <212> PRT  
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<400> 568

Asn Glu Asp Lys Asp Pro Ala Phe Thr Ala Leu Leu Thr Thr Gln Thr  
 1 5 10 15

Gln Val Gln Arg  
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<210> 569  
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<400> 569

Ala Trp Phe Leu Glu Ser Lys  
 1 5

<210> 570  
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<400> 570

Ala Trp Phe Leu Glu Ser Lys Asp Ser Leu Leu Lys  
 1 5 10

<210> 571  
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<400> 571

Asp Gly Trp Gln Trp Phe Trp Ser Pro Ser Thr Phe Arg  
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<210> 572  
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<400> 572

Asp Leu Gly Pro Leu Thr Lys  
 1 5



<210> 573  
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Glu Leu Leu Glu Thr Val Val Asn Arg  
 1 5

<210> 574  
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 <212> PRT  
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<400> 574

Gly Phe Met Gln Thr Tyr Tyr Asp Asp His Leu Arg  
 1 5 10

<210> 575  
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<400> 575

Gly Phe Met Gln Thr Tyr Tyr Asp Asp His Leu Arg Asp Leu Gly Pro  
 1 5 10 15

Leu Thr Lys

<210> 576  
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<400> 576

Lys Thr His Ser Leu Cys Pro Arg  
 1 5

<210> 577  
 <211> 15  
 <212> PRT  
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<400> 577

Thr Arg Asp Gly Trp Gln Trp Phe Trp Ser Pro Ser Thr Phe Arg  
 1 5 10 15

<210> 578  
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 <212> PRT  
 <213> Homo sapiens

<400> 578

Trp Ser Leu Val Arg

1 5

<210> 579  
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<213> Homo sapiens

&lt;400&gt; 579

Ala Glu Met Ala Asp Gln Ala Ala Ala Trp Leu Thr Arg  
1 5 10

<210> 580  
<211> 25  
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&lt;400&gt; 580

Ser Thr Gln Asp Thr Val Ile Ala Leu Asp Ala Leu Ser Ala Tyr Trp  
1 5 10 15

Ile Ala Ser His Thr Thr Glu Glu Arg  
20 25

<210> 581  
<211> 8  
<212> PRT  
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&lt;400&gt; 581

Asp Trp Phe Ser Glu Thr Phe Arg  
1 5

<210> 582  
<211> 9  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 582

Glu Phe Gly Asn Thr Leu Glu Asp Lys  
1 5

<210> 583  
<211> 9  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 583

Glu Leu Leu Glu Thr Val Val Asn Arg  
1 5

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Glu Ser Leu Ser Ser Tyr Trp Glu Ser Ala Lys  
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Glu Trp Phe Ser Glu Thr Phe Gln Lys  
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Leu Lys Glu Phe Gly Asn Thr Leu Glu Asp Lys  
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Thr Pro Asp Val Ser Ser Ala Leu Asp Lys  
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Thr Tyr Leu Pro Ala Val Asp Glu Lys  
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Glu Val Gln Pro Val Glu Leu Pro Asn Cys Asn Leu Val Lys  
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Gly Ile Glu Thr Gly Ser Glu Asp Leu Glu Ile Leu Pro Asn Gly Leu  
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1 5 10 15

Ala Phe Ile Ser Ser Gly Leu Lys  
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Ile Phe Phe Tyr Asp Ser Glu Asn Pro Pro Ala Ser Glu Val Leu Arg  
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Ile Leu Leu Met Asp Leu Asn Glu Glu Asp Pro Thr Val Leu Glu Leu  
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Gly Ile Thr Gly Ser Lys  
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<400> 593

Val Val Ala Glu Gly Phe Asp Phe Ala Asn Gly Ile Asn Ile Ser Pro  
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Asp Gly Lys

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Tyr Val Tyr Ile Ala Glu Leu Leu Ala His Lys  
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Cys Phe Glu Thr Val Tyr Asp Gly Tyr Ser Lys  
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Cys Pro Ala Met Val Ala Tyr Cys Met Thr Thr Arg  
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Asp Ser Gly Gly Gln Thr Ser Ala Gly Cys Pro Ser Gly Trp Leu Gly  
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Thr Arg

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Lys Met Ile Cys Leu Leu Lys  
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Gln Gln His Phe Ala His Leu Leu Ile Leu Arg  
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Leu Val His Ser Arg Asp Asn His Gly Arg  
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Ala Lys Asp Phe Gly Ser Ser Leu Lys  
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Asp Phe Gly Ser Ser Leu Lys  
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Glu Asn Gln Phe Ser Val Met Val Val Asn Lys  
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Leu Pro Gly Ser Thr Leu  
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Gln Met Leu Glu Gly Glu Lys  
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Glu Ala Ala Pro Val Gly Arg Ser Ser Ala Ser Gly Thr Pro Leu Ala  
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Ala Ala His Lys  
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Gln Gly His Lys Leu Gly Lys  
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Trp Tyr Asn Leu Ala Ile Gly Ser Thr Cys Pro Trp Leu Lys  
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Lys Glu Leu Ser Ser Phe Ile Asp Lys  
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Val Pro Thr Ala Asp Leu Glu Asp Val Leu Pro Leu Ala Glu Asp Ile  
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Thr Asn Ile Leu Ser Lys  
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Leu Ser Arg Cys Leu Leu Leu Asn Ser Arg  
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Val Ala Glu Tyr Met Asp Trp Ile Leu Glu Lys  
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Ile Ala Glu Phe Ala Phe Glu Tyr Ala Arg  
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Leu Tyr Pro Gly Asp Ala Val Ser Leu Gln Gly Ala Ala Arg  
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Asn Phe Glu Lys Thr Leu Gln Ile Ile His Val Ser Glu Ala Asp Ser  
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Gly Asn Tyr Gln Cys Ile Ala Lys  
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Trp Gln Thr Gly Thr Asn Pro Leu Tyr Arg  
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<400> 618

Met Glu Ala Leu Ser Ala Arg Gln Arg



1 5

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&lt;400&gt; 619

Phe Gln Asn Ser Ala Ile Leu Thr Ile Gln Pro Lys  
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&lt;400&gt; 620

Glu Ala Trp Glu Gln Gln Gln Gly Ala Val Ala Lys  
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&lt;400&gt; 621

Ala Ala Leu Ala Ser Ala His Gln Cys His Pro Leu Pro Arg Thr Leu  
 1 5 10 15

Ser Val Leu Lys  
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<210> 622  
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&lt;400&gt; 622

Ile Ile Phe Val Ile Thr His His Leu Leu Lys  
 1 5 10

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&lt;400&gt; 623

Ser Val Ile Met Val Val Phe Ala Glu Asp Lys  
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&lt;400&gt; 624

Glu Lys Leu Gln Asp Glu Asp Leu Gly Phe Leu  
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<400> 625

Leu Gly Val Arg Pro Ser Gln Gly Gly Glu Ala Pro Arg  
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<400> 626

Val Thr Trp Ala Pro Pro Pro Ser Ile Asp Leu Thr Asn Phe Leu Val  
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Arg

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<400> 627

Gly Ala Thr Tyr Asn Ile Ile Val Glu Ala Leu Lys  
 1 5 10

<210> 628  
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<400> 628

Leu Leu Gln Glu Gly Gln Ala Leu Glu Tyr Val Cys Pro Ser Gly Phe  
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Tyr Pro Tyr Pro Val Gln Thr Arg  
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<400> 629

Ser Gly Val Gln Gln Leu Ile Gln Tyr Tyr Gln Asp Gln Lys  
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 <212> PRT  
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<400> 630

Leu His Leu Glu Thr Asp Ser Leu Ala Leu Val Ala Leu Gly Ala Leu  
 1 5 10 15

Asp Thr Ala Leu Tyr Ala Ala Gly Ser Lys  
 20 25

<210> 631  
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 <212> PRT  
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<400> 631

Leu Leu Leu Phe Ser Pro Ser Val Val His Leu Gly Val Pro Leu Ser  
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Val Gly Val Gln Leu Gln Asp Val Pro Arg  
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<400> 632

Phe Met Glu Thr Val Ala Glu Lys  
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<210> 633  
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<400> 633

Glu Leu Asp Glu Ser Leu Gln Val Ala Glu Arg  
 1 5 10

<210> 634  
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 <212> PRT  
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<400> 634

Val Thr Thr Val Ala Ser His Thr Ser Asp Ser Asp Val Pro Ser Gly  
 1 5 10 15

Val Thr Glu Val Val Val Lys  
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Ala Ser Ser Ile Ile Asp Glu Leu Phe Gln Asp Arg  
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Lys Thr Leu Leu Ser Asn Leu Glu Glu Ala Lys  
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<210> 637  
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Thr Leu Leu Ser Asn Leu Glu Glu Ala Lys  
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<400> 638

Ile Gln Asp Ile Asn Asp Asn Glu Pro Lys  
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Asp Arg Ser Leu Ser Val Trp Leu Thr Cys Leu Lys  
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Gly Ala Phe Ser Asp Gly Leu Ala His Leu Asp Asn Leu Lys  
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<213> Homo sapiens

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Leu Gly Glu Phe Trp Leu Gly Asn Asp Asn Ile His Ala Leu Thr Ala  
1 5 10 15

Gln Gly Thr Ser Glu Leu Arg  
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<213> Homo sapiens

<400> 642

Lys Glu Ala Val Leu Leu Ala Lys  
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<400> 643

Val Asn Ile Asn Val Pro Met Lys  
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Asn Leu Ile Val Ile Arg Ala Pro Lys  
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<212> PRT

<213> Homo sapiens

<400> 645

Ile Lys Gln Glu Ile Ile Lys  
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<210> 646

<211> 10

<212> PRT

<213> Homo sapiens

<400> 646

Ala Leu Glu Ala Phe Glu Thr Phe Lys Lys  
1 5 10

<210> 647

<211> 13  
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<400> 647

Ala Glu Ala Gln Ala Gln Tyr Ser Ala Ala Val Ala Lys  
 1 5 10

<210> 648  
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<400> 648

Ile Leu Leu Gln Gly Thr Pro Val Ala Gln Met Thr Glu Asp Ala Val  
 1 5 10 15

Asp Ala Glu Arg  
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<400> 649

Gly Val Thr Ser Val Ser Gln Ile Phe His Ser Pro Asp Leu Ala Ile  
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Arg

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Ser Leu Pro Leu Leu Met Asp Ser Val Ile Gln Ala Leu Ala Glu Leu  
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Glu Gln Lys

<210> 651  
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<400> 651

Thr Val Leu Asp Leu Gln Ser Ser Leu Ala Gly Val Ser Glu Asn Leu  
 1 5 10 15

Lys

<210> 652  
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<400> 652

Trp Leu Gln Tyr Lys Phe Phe Cys Leu Leu Cys Lys  
 1 5 10

<210> 653  
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<400> 653

Phe Gly Ser Ser Leu Ile Thr Val Arg  
 1 5

<210> 654  
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Ala Lys Asn Gln Val Val Ile Ala Ala Gly Arg  
 1 5 10

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 <212> PRT  
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<400> 655

Arg Ile His Ala Gly Glu Lys Pro Tyr Lys  
 1 5 10

<210> 656  
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 <212> PRT  
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<400> 656

Cys Leu Cys Leu Pro Gly Tyr Val Pro Ser Asp Lys Pro Asn Tyr Cys  
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Thr Pro Leu Asn Thr Ala Leu Asn Leu Glu Lys  
 20 25

<210> 657  
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 <212> PRT  
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<400> 657

Thr Gln Leu Ser Arg Met Gln Glu Asp Trp Ile Glu Glu Glu Cys His  
 1 5 10 15

Arg

<210> 658  
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<400> 658

Asp Leu Glu Glu Ala Thr Leu Gln His Glu Ala Thr Ala Ala Ala Leu  
 1 5 10 15

Arg

<210> 659  
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 <212> PRT  
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<400> 659

Tyr Asp Pro Glu Ala Ala Ser Ala Pro Gly Ser Gly Asn Pro Cys His  
 1 5 10 15

Glu Ala Ser Ala Ala Gln Lys  
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<400> 660

His Met Glu Lys Cys Ser Thr Ser Leu Ile Ile Arg  
 1 5 10

<210> 661  
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 <212> PRT  
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<400> 661

Met Asn Ile Ser Val Asp Leu Glu Thr Asn Tyr Ala Glu Leu Val Leu  
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Asp Val Gly Arg  
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<210> 662  
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&lt;400&gt; 662

Phe Phe Gly Leu Pro Gln Thr Gly Asp Leu Asp Gln Asn Thr Ile Glu  
 1 5 10 15

Thr Met Arg

&lt;210&gt; 663

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 663

Glu Thr Ser Asn Phe Gly Phe Ser Leu Leu Arg  
 1 5 10

&lt;210&gt; 664

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 664

Gly Pro Leu Asp Gln Leu Glu Lys  
 1 5

&lt;210&gt; 665

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 665

Thr Ser Cys Leu Leu Phe Met Gly Arg  
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&lt;210&gt; 666

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 666

Val Ala Asn Tyr Phe Asp Trp Ile Ser Tyr His Val Gly Arg Pro Phe  
 1 5 10 15

Ile Ser Gln Tyr Asn Val  
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&lt;210&gt; 667

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 667

Ser Pro Leu Asn Asp Phe Gln Val Leu Arg  
 1 5 10

<210> 668  
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 <212> PRT  
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<400> 668

Val Met Val Thr Asp Phe Glu Asn Val Pro Glu Glu Asp Gly Thr Arg  
 1 5 10 15

<210> 669  
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 <212> PRT  
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<400> 669

Met Ala Thr Ala Ile Ala Arg Cys Ala Pro Asp Glu Glu Leu Leu Ser  
 1 5 10 15

Cys Ser Ser Phe Ser Arg  
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<210> 670  
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<400> 670

Leu Gly Val Phe Cys Phe Ser Gln Glu Asn Ile Ile Trp Ala Asn Leu  
 1 5 10 15

Arg

<210> 671  
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<400> 671

Ala Leu Asn Ser Ile Ile Asp Val Tyr His Lys  
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<210> 672  
 <211> 24  
 <212> PRT  
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<400> 672

Cys Ser Ala Thr Gly Ser Pro Thr Pro Thr Leu Glu Trp Thr Gly Gly  
 1 5 10 15

Pro Gly Gly Gln Leu Pro Ala Lys  
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<210> 673  
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<400> 673

Asp Phe Ile Ser Leu Gly Leu Gln Asp Gly His Leu Val Phe Arg  
 1 5 10 15

<210> 674  
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<400> 674

Leu Val Ser Glu Asp Pro Ile Asn Asp Gly Glu Trp His Arg  
 1 5 10

<210> 675  
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 <212> PRT  
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<400> 675

His Tyr Tyr Ile Gly Ile Ile Glu Thr Thr Trp Asp Tyr Ala Ser Asp  
 1 5 10 15

His Gly Glu Lys  
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<210> 676  
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 <212> PRT  
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<400> 676

His Tyr Tyr Ile Gly Ile Ile Glu Thr Thr Trp Asp Tyr Ala Ser Asp  
 1 5 10 15

His Gly Glu Lys Lys  
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<210> 677  
 <211> 21  
 <212> PRT  
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<400> 677

Asp Ala Thr Cys Asn Cys Asp Tyr Asn Cys Gln His Tyr Met Glu Cys  
 1 5 10 15

Cys Pro Asp Phe Lys  
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<210> 678  
 <211> 15  
 <212> PRT  
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<400> 678

His Leu Asp Ser Val Leu Gln Gln Leu Gln Thr Glu Val Tyr Arg  
 1 5 10 15

<210> 679  
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<400> 679

Gln Ala Val Asp Thr Ala Val Asp Gly Val Phe Ile Arg  
 1 5 10

<210> 680  
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<400> 680

Leu Trp Ala Tyr Leu Thr Ile Gln Glu Leu Leu Ala Lys  
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<210> 681  
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<400> 681

Gly Ser Leu Val Gln Ala Ser Glu Ala Asn Leu Gln Ala Ala Gln Asp  
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Phe Val Arg

<210> 682  
 <211> 15  
 <212> PRT  
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<400> 682

Gly Asp Lys Leu Pro Glu Cys Glu Ala Val Cys Gly Lys Pro Lys  
 1 5 10 15

<210> 683  
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 <212> PRT  
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<400> 683

Ile Asp Ala Asp Ala Ile Val Glu Lys  
 1 5

<210> 684  
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<212> PRT  
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<400> 684

Phe Asp Ser Asp Ala Ala Ser Pro Arg  
1 5

<210> 685  
<211> 14  
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<400> 685

Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg  
1 5 10

<210> 686  
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<212> PRT  
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<400> 686

Gly Phe His Gln Glu Val Phe Leu Gly Lys  
1 5 10

<210> 687  
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<400> 687

Ala Leu Tyr Pro Ser Ile Tyr Met Pro Ala Val Leu Glu Gly Thr Gly  
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Lys

<210> 688  
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<400> 688

Leu Glu Val Ala Leu Lys Glu Ala Lys  
1 5

<210> 689  
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<212> PRT  
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<400> 689

Gln Trp Ile Asn Leu Phe Leu Arg  
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<210> 690  
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<400> 690

Leu Ser Gly Asn Val Leu Ser Tyr Thr Phe Gln Val Lys  
1 5 10

<210> 691  
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<400> 691

Leu Ser Ala Leu His Leu Glu Val Arg  
1 5

<210> 692  
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<400> 692

Ala Cys Gly Met Pro Gly Ala Glu Ser Leu Arg  
1 5 10

<210> 693  
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<400> 693

Ala Phe Ser Phe Ser Ser Ala Leu Ile Arg  
1 5 10

<210> 694  
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<400> 694

Pro Ser Asp Thr Ile Glu Asn Val Lys  
1 5

<210> 695  
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<400> 695

Val Asn Glu Pro Ser Ile Leu Glu Met Ser Arg  
1 5 10

<210> 696  
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<400> 696

Gly Asp Leu Ser Ser Ile Arg Trp Val Cys Ser Ser Leu Arg  
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<210> 697  
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<400> 697

Met Ala Leu Ala Leu Leu Asp Ala Val Arg  
 1 5 10

<210> 698  
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<400> 698

Gln Met Ser Cys Val Asn Lys  
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<210> 699  
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<400> 699

Thr Lys Ile Ala Ala Ala Val Gly Gly Leu Thr Ala Leu Ala Val Gly  
 1 5 10 15

Trp Tyr Thr Ala Lys  
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<210> 700  
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<400> 700

Glu Phe Asp Thr Val Pro Gly Ala Glu Phe Pro Glu Lys  
 1 5 10

<210> 701  
 <211> 17  
 <212> PRT  
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<400> 701

Tyr Gly Phe Cys Glu Ala Ala Asp Gln Phe His Val Leu Asp Glu Val  
 1 5 10 15

Arg

<210> 702  
 <211> 14  
 <212> PRT  
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<400> 702

Leu Leu Glu Arg Leu Pro Glu Val Glu Val Pro Gln His Leu  
 1 5 10

<210> 703  
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Arg Glu Glu Gly Ala Pro Gly Asp Pro Glu Ala Ala Leu Glu Asp Asn  
 1 5 10 15

Leu Ala Arg

<210> 704  
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Glu Arg Asn Lys Gly Gln



